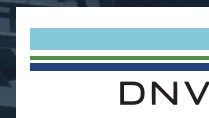


# SENSOR&TRANSMITTER

ASI sensor&transmitters, your professional and reliable choice in the maritime, ensure the safety and efficiency of production!



# Pressure Transmitter

| Model                                                                                             | Drawing No.          | Application                                                                                                    |
|---------------------------------------------------------------------------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------|
| <br>SMP131-TLD   | PT-SMP131-TLD-DS     | Gas and Liquid Medium Pressure Measuring;<br>Indoor Installation Type-IP66;<br>Explosive Environments;         |
|                                                                                                   | PT-SMP131-TLD-MT     |                                                                                                                |
| <br>SMP131-TLH   | PT-SMP131-TLH-DS-001 | Gas and Liquid Medium Pressure Measuring;<br>Outdoor Installation Type-IP67;<br>Explosive Environments;        |
|                                                                                                   | PT-SMP131-TLH-MT     |                                                                                                                |
| <br>SMP131-TLN  | PT-SMP131-TLN-DS-001 | Side Mounting Liquid Level/Pressure Measuring;<br>Immersion Installation Type-IP68;<br>Explosive Environments; |
|                                                                                                   | PT-SMP131-TLN-MT     |                                                                                                                |
|                                                                                                   | PT-SMP131-TLN-DS-002 | Four /Six Conner Draft Level Measuring;<br>Immersion Installation Type-IP68;<br>Explosive Environments;        |
|                                                                                                   | PT-SMP131-TLN-MT-D   |                                                                                                                |
| <br>LMP633-NLN | PT-LMP633-NLN-DS     | Top Mounting Liquid Level Measuring;<br>Immersion Installation Type-IP68;<br>Explosive Environments;           |
|                                                                                                   | PT-LMP633-NLN-MT     |                                                                                                                |

# Pressure Transmitter

| Model                                                                                          | Drawing No.   | Application                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>CXT-SKC   | PT-CXT-SKC-DS | Gas and Liquid Medium Diff.Pressure Measuring;<br>Outdoor Installation Type-IP67;<br>Explosive Environments;<br>Intelligent Type With Hart Communication;                     |
| <br>CXT-SKG   | PT-CXT-SKG-DS | Gas and Liquid Medium Gauge Pressure Measuring;<br>Outdoor Installation Type-IP67;<br>Explosive Environments;<br>Intelligent Type With Hart Communication;                    |
| <br>CXT-SKA   | PT-CXT-SKA-DS | Gas and Liquid Medium Absolute Pressure Measuring;<br>Outdoor Installation Type-IP67;<br>Explosive Environments;<br>Intelligent Type With Hart Communication;                 |
| <br>CXT-SKP | PT-CXT-SKP-DS | Gas and Liquid Medium Gauge Pressure Measuring;<br>Outdoor Direct Mounting Installation Type-IP66;<br>Explosive Environments;<br>Intelligent Type With Hart Communication;    |
| <br>CXT-SKH | PT-CXT-SKH-DS | Gas and Liquid Medium Absolute Pressure Measuring;<br>Outdoor Direct Mounting Installation Type-IP66;<br>Explosive Environments;<br>Intelligent Type With Hart Communication; |

# Microwave Radar Level Gauge

| Model                                                                                                                                                                                              | Drawing No.        | Application                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>SL906</p><br> <p>SL906S</p> | LT-SL906-DN150-DS  | Non-contact Liquid Level Measuring;<br>Outdoor Installation Type-IP67;<br>Normal Temperature Application;<br>Explosive Environments;<br>High Accuracy&Frequency/Small beam angle; |
|                                                                                                                                                                                                    | LT-SL906-DN80-DS   |                                                                                                                                                                                   |
|                                                                                                                                                                                                    | LT-SL906S-DN150-DS | Non-contact Liquid Level Measuring;<br>Outdoor Installation Type-IP67;<br>High Temperature Application;<br>Explosive Environments;<br>High Accuracy&Frequency/Small beam angle;   |
|                                                                                                                                                                                                    | LT-SL906S-DN80-DS  |                                                                                                                                                                                   |
|                                                                                                                                                                                                    | LT-SL90-MT         | Normal Installation Form                                                                                                                                                          |
|                                                                                                                                                                                                    | LT-SL90-MT-GWP     | Guide Wave Pipe Installation Form                                                                                                                                                 |

# Float Level Switch

| Model                                                                                          | Drawing No.     | Application                                                                                                                 |
|------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------|
| <br>SL20-1T-D | LS-SL20-1T-D-DS | Top Mounting Liquid Level Alarm;<br>Two Float Switch Level Alarm;<br>Explosive Environments;<br>With Self-chenk Device;     |
|                                                                                                | LS-SL20-1T-S-DS | Top Mounting Liquid Level Alarm;<br>One Float Switch Level Alarm;<br>Explosive Environments;<br>With Self-chenk Device;     |
|                                                                                                | LS-SL20-1T-MT   | Top Mounting Liquid Level Alarm;<br>One/Two Float Switch Level Alarm;<br>Explosive Environments;<br>With Self-chenk Device; |
| <br>SL20-2T | LS-SL20-2T-DS   | Side Mounting Liquid Level Alarm;<br>Explosive Environments;<br>With Self-chenk Device;                                     |
|                                                                                                | LS-SL20-2T-MT   |                                                                                                                             |

# Temperature Sensor & Transmitter

| Model                                                                                           | Drawing No. | Application                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>WZPK</p>   | TS-WZPK-DS  | PT100 Signal Output;<br>Outdoor Installation Type is feasible-IP67;<br>Protection Well is available for selection-Thread/Flange;<br>Explosive Environments;                   |
|  <p>WZPB</p>   | TT-WZPB-DS  | 4~20mA Signal Output;<br>Outdoor Installation Type is feasible-IP67;<br>Protection Well is available for selection-Thread/Flange;<br>Explosive Environments;                  |
|  <p>WZPBS</p> | TT-WZPBS-DS | 4~20mA Signal Output With LCD Display;<br>Outdoor Installation Type is feasible-IP67;<br>Protection Well is available for selection-Thread/Flange;<br>Explosive Environments; |
|  <p>WZPD</p> | TS-WZPD-DS  | PT100 Signal Output;<br>Outdoor Installation Type is feasible-IP67;<br>Optional multiple temperature Measurements;<br>Explosive Environments;                                 |



|         |         |  |
|---------|---------|--|
| Mark    | 2-wires |  |
| 1       | +       |  |
| 2       | -       |  |
| 3       | /       |  |
| $\perp$ | PE      |  |

☐ G1/2"-Male      ☐ G1/2"-Female  
☐ G1/4"-Male      ☐ G1/4"-Female  
☐ G3/8"-Male      ☐ M20X1.5-Male

☐ Gauge Press.    ☐ Absolute Press.

- SS316L (Freshwater, gas, oil, etc)
- HC-276 (Acid, alkali, seawater, etc)
- Ceramic (Hydrogen, corrosion, wear-resistant)

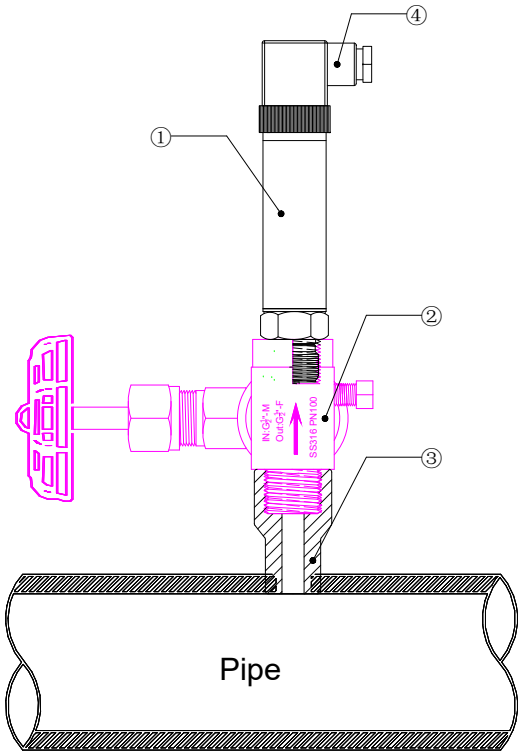
|              |      |        |
|--------------|------|--------|
| □ExiallCT4Ga | N/A  |        |
| □CNEX        | ATEX | □IECEX |

|                    |                    |
|--------------------|--------------------|
| LRL/URL            | (-0.1~4)Mpa        |
| Pressure Overload  | 150%-Range         |
| Measuring Accuracy | ±0.2% F.S.         |
| Output Signal      | (4~20)mA; 2-wires  |
| Ambient Temp.      | (-40~85)℃          |
| Power Supply       | 24VDC              |
| Cable Entrance     | PG11(5~10mm)       |
| Elec. Wiring       | 1: +; 2-; PE       |
| Protection-Grade   | IP66; EN 60529/IEC |
| Material           | Body:SS316L        |

Note: The nameplate information provided is for illustration purposes only. It is intended to show the categories of product information that the nameplate will contain. The actual specific parameters of the sensor will be indicated according to the actual selection.

|      |        |       |       |           |                                                                                      |              |                   |                                      |  |
|------|--------|-------|-------|-----------|--------------------------------------------------------------------------------------|--------------|-------------------|--------------------------------------|--|
|      |        |       |       |           |  | WEIGHT       | TYPE              | TITLE <b>Pressure Transmitter</b>    |  |
| V1.0 | Luna   | Rex   | Bob   | 2025/8/12 |                                                                                      | <b>0.3Kg</b> | <b>SMP131-TLD</b> | DRAWING NO.: <b>PT-SMP131-TLD-DS</b> |  |
| Ver. | Design | Check | Appr. | Date      |                                                                                      |              |                   |                                      |  |
| 1    | 2      | 3     | 4     | 5         | 6                                                                                    | 7            | 8                 |                                      |  |

☐ Form A



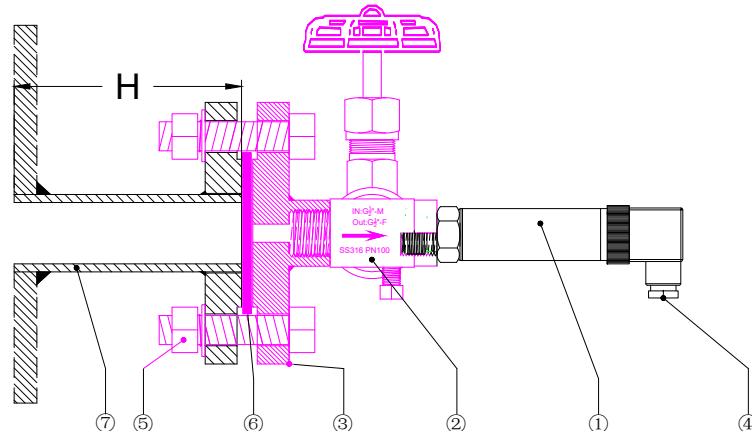
NOTE:

- 1、All components have PTFE gaskets at the docking connection points. Please tighten them during installation to ensure sufficient compression and contact of the gaskets, ensuring the sealing performance of the connection;
- 2、The installation of sensors requires a side installation form, with the cable entrance facing downwards. When wiring cable, it should be installed from bottom to top to avoid accidental water ingress at the cable entry end.
- 3、Transmitter should be installed at indoor area.

|            |                        |                                  |                 |                                                              |
|------------|------------------------|----------------------------------|-----------------|--------------------------------------------------------------|
| ④          | Cable Gland            | PG11(5~10mm cable)               | -               | -                                                            |
| ③          | Threaded welding Joint | G1/2"(F)                         | SS316L          | -                                                            |
| ②          | 3 ways Test Cock valve | Inlet: G1/2"(M)-Outlet: G1/2"(F) | SS316L          | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ①          | Pressure Transmitter   | SMP131-TLD                       | -               | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| <b>No.</b> | <b>Items</b>           | <b>Description</b>               | <b>Material</b> | <b>Supplier</b>                                              |

|      |        |       |       |           |                                                                                                                                                                                |
|------|--------|-------|-------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      |        |       |       |           | <br>ASI   AQUASYNC<br>INNOVATION<br><small>YOUR SHIP'S GUARDIAN IN THE DIGITAL AGE</small> |
| V1.0 | Luna   | Rex   | Bob   | 2025/8/12 |                                                                                                                                                                                |
| Ver. | Design | Check | Appr. | Date      |                                                                                                                                                                                |

☐ Form B



NOTE:

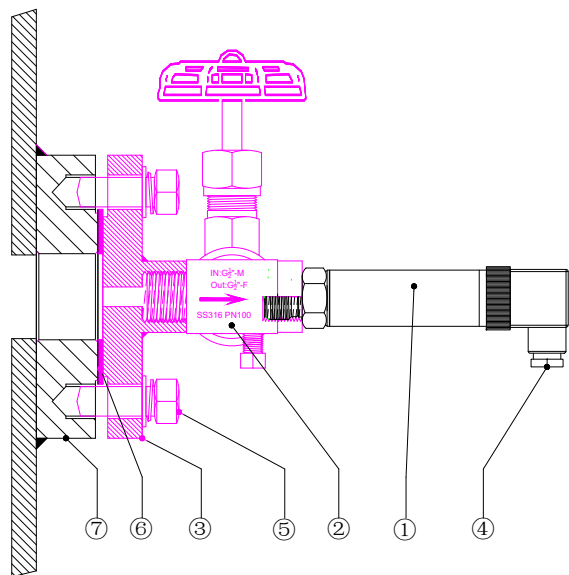
1. All components have PTFE gaskets at the docking connection points. Please tighten them during installation to ensure sufficient compression and contact of the gaskets, ensuring the sealing performance of the connection;
2. The installation of sensors requires a side installation form, with the cable entrance facing downwards. When wiring cable, it should be installed from bottom to top to avoid accidental water ingress at the cable entry end.
3. The height value H of the flange type installation base needs to be confirmed by shipyard;
4. Transmitter should be installed at indoor area.

|   |                               |                                                         |        |                                                              |
|---|-------------------------------|---------------------------------------------------------|--------|--------------------------------------------------------------|
| ⑦ | Flange type installation base | Flange: GB/T2506-2005 DN25 PN10<br>Pipe: SCH40S SS316L; | SS316L | -                                                            |
| ⑥ | Gasket                        | PTFE; DN25 PN10                                         | SS316L | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ⑤ | Bolts                         | M12-50                                                  | SS316L | <input type="checkbox"/> ASI <input type="checkbox"/> Others |

|   |                           |                                   |        |                                                              |
|---|---------------------------|-----------------------------------|--------|--------------------------------------------------------------|
| ④ | Cable Gland               | PG1(5~10mm cable)                 | SS316L |                                                              |
| ③ | Flange with Female Thread | G1/2"(F): GB/T2506-2005 DN25 PN10 | SS316L | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ② | 3 ways Test Cock valve    | Inlet: G1/2"(M)-Outlet: G1/2"(F)  | SS316L | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ① | Pressure Transmitter      | SMP131-TLD                        | -      | <input type="checkbox"/> ASI <input type="checkbox"/> Others |

| No.        | Items | Description                                    | Material | Supplier |
|------------|-------|------------------------------------------------|----------|----------|
| TYPE       |       | TITLE Scope of Supply and Installation Diagram |          |          |
| SMP131-TLD |       | DRAWING NO.: PT-SMP131-TLD-MT                  |          |          |

☐ Form C



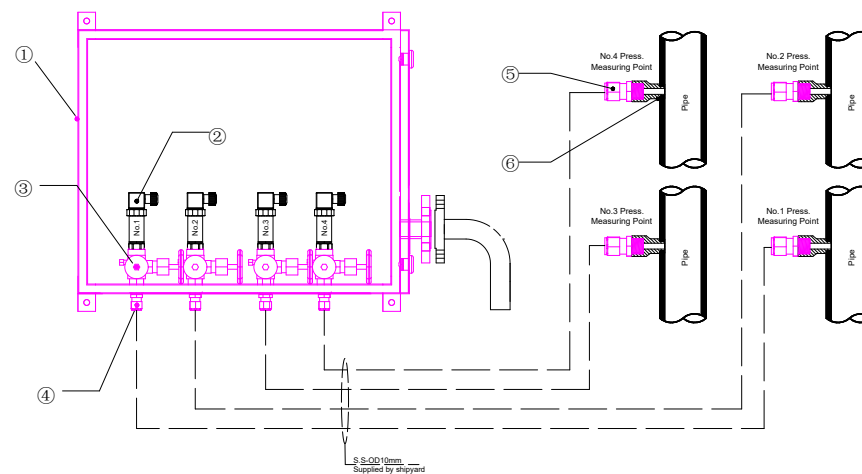
NOTE:

- 1、All components have PTFE gaskets at the docking connection points. Please tighten them during installation to ensure sufficient compression and contact of the gaskets, ensuring the sealing performance of the connection;
- 2、The installation of sensors requires a side installation form, with the cable entrance facing downwards. When wiring cable, it should be installed from bottom to top to avoid accidental water ingress at the cable entry end.
- 3、Transmitter should be installed at indoor area.

|            |                                  |                                   |                 |                                                              |
|------------|----------------------------------|-----------------------------------|-----------------|--------------------------------------------------------------|
| ⑦          | Welding Flange installation base | Flange: GB/T11693-2010 DN25 PN10  | SS316L          | -                                                            |
| ⑥          | Gasket                           | PTFE: DN25 PN10                   | SS316L          | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ⑤          | Bolts                            | M12-30                            | SS316L          | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ④          | Cable Gland                      | PG11 ( 5~10mm cable )             | -               | -                                                            |
| ③          | Flange with Female Thread        | G1/2"(F): GB/T2506-2005 DN25 PN10 | SS316L          | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ②          | 3 ways Test Cock valve           | Inlet: G1/2"(M)-Outlet: G1/2"(F)  | SS316L          | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ①          | Pressure Transmitter             | SMP131-TLD                        | -               | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| <b>No.</b> | <b>Items</b>                     | <b>Description</b>                | <b>Material</b> | <b>Supplier</b>                                              |

|      |        |       |       |           |                                                                                                                                 |
|------|--------|-------|-------|-----------|---------------------------------------------------------------------------------------------------------------------------------|
|      |        |       |       |           | <br>YOUR SHIP'S GUARDIAN IN THE DIGITAL AGE |
| V1.0 | Luna   | Rex   | Bob   | 2025/8/12 |                                                                                                                                 |
| Ver. | Design | Check | Appr. | Date      |                                                                                                                                 |

☐ Form D



NOTE:

- 1、All components have PTFE gaskets at the docking connection points. Please tighten them during installation to ensure sufficient compression and contact of the gaskets, ensuring the sealing performance of the connection;
- 2、Measure pressure using a pressure pipe, with a requirement that the length of the pressure pipe should not exceed 30m;
- 3、The pressure is measured in the form of a pressure pipe, and the laying of the pressure pipe is required to meet the requirement that the pressure sensor end is higher than the measuring point sleeve. The laying of the pipe should be kept as smooth as possible, and should be led from low to high to the pressure transmitter, avoiding the uneven arrangement of high and low.

|            |                                 |                                              |                 |                                                              |
|------------|---------------------------------|----------------------------------------------|-----------------|--------------------------------------------------------------|
| ⑥          | Threaded welding Joint          | G1/2"-Female                                 | SS316L          | -                                                            |
| ⑤          | Straight card sleeve joint      | G1/2"-Male;OD10mm                            | SS316L          | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ④          | Straight card sleeve joint      | G1/2"-Female;OD10mm                          | SS316L          | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ③          | 3 ways Test Cock valve          | Inlet: G1/2"(M)-Outlet: G1/2"(F)             | SS316L          | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ②          | Pressure Transmitter            | SMP131-TLD                                   | -               | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ①          | Waterproof Installation Cabinet | L550xH450xD300mm;<br>20#-Steel/RAL7035;IP56; | 20# Steel       | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| <b>No.</b> | <b>Items</b>                    | <b>Description</b>                           | <b>Material</b> | <b>Supplier</b>                                              |

|                   |                                                       |
|-------------------|-------------------------------------------------------|
| TYPE              | TITLE <b>Scope of Supply and Installation Diagram</b> |
| <b>SMP131-TLD</b> | DRAWING NO.: <b>PT-SMP131-TLD-MT</b>                  |



|                    |                           |
|--------------------|---------------------------|
| LRL/URL            | (-0.1~4)Mpa               |
| Pressure Overload  | 150%-Range                |
| Measuring Accuracy | ±0.2% F.S.                |
| Output Signal      | (4~20)mA; 2-wires         |
| Ambient Temp.      | (-40~85)°C                |
| Power Supply       | 24VDC                     |
| Cable Entrance     | M20X1.5(8~12mm)           |
| Elec. Wiring       | P+;P-;PE                  |
| Protection-Grade   | IP66/67; EN 60529/IEC 529 |
| Material           | Body:SS316L               |

Note: The nameplate information provided is for illustration purposes only. It is intended to show the categories of product information that the nameplate will contain. The actual specific parameters of the sensor will be indicated according to the actual selection.

|      |        |       |       |           |                                                                                      |        |            |                                          |  |   |  |   |  |   |  |
|------|--------|-------|-------|-----------|--------------------------------------------------------------------------------------|--------|------------|------------------------------------------|--|---|--|---|--|---|--|
|      |        |       |       |           |  | WEIGHT | TYPE       | TITLE <b>Pressure Transmitter</b>        |  |   |  |   |  |   |  |
| V1.0 | Luna   | Rex   | Bob   | 2025/8/12 |                                                                                      | 1.2Kg  | SMP131-TLH | DRAWING NO.: <b>PT-SMP131-TLH-DS-001</b> |  |   |  |   |  |   |  |
| Ver. | Design | Check | Appr. | Date      |                                                                                      |        |            |                                          |  |   |  |   |  |   |  |
| 1    |        | 2     |       | 3         |                                                                                      | 4      |            | 5                                        |  | 6 |  | 7 |  | 8 |  |





|      |        |       |       |           |
|------|--------|-------|-------|-----------|
|      |        |       |       |           |
| V1.0 | Luna   | Rex   | Bob   | 2025/8/12 |
| Ver. | Design | Check | Appr. | Date      |



TYPE

---

**SMP131-TLN**

TITLE Pressure Transmitter

DRAWING NO.: PT-SMP131-TLN-DS-001

|        |         |  |
|--------|---------|--|
| Mark   | 2-wires |  |
| Red    | +       |  |
| Black  | -       |  |
| Blue   | /       |  |
| Yellow | PE      |  |

## Cable Length(L) m

## Process Connection(T)

- ☐ G1/2"-Male      ☐ G1/2"-Female  
☐ G1/4"-Male      ☐ G1/4"-Female  
☐ G3/8"-Male      ☐ M20X1.5-Male

## Press. Form

- ☐ Gauge Press.    ☐ Absolute Press.

## Diaphragm Material

- SS316L (Freshwater, gas, oil, etc)
- HC-276 (Acid, alkali, seawater, etc)
- Ceramic (Hydrogen, corrosion, wear-resistant)

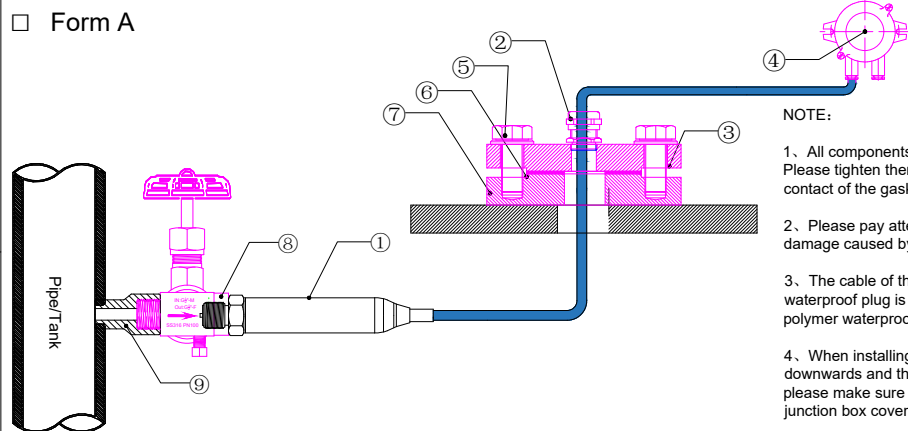
## Ex-Proof

- ☐ ExiallCT4Ga    ☐ N/A
- ☐ CNEX            ☐ ATEX            ☐ IECEx

### Measuring Range

## Technical Parameter

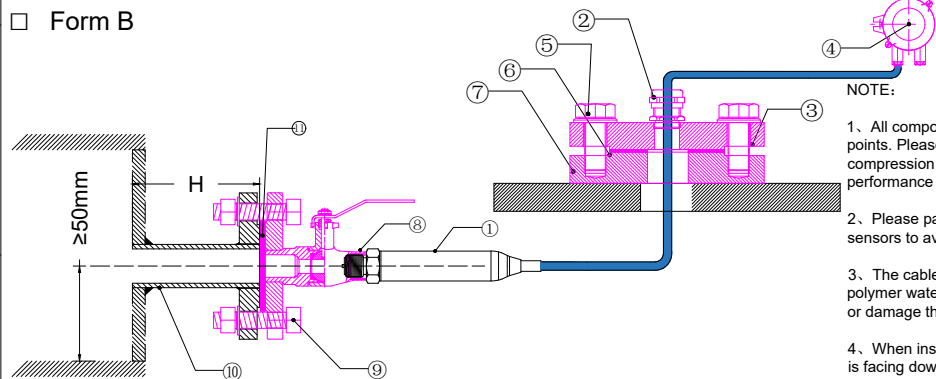
|                    |                         |
|--------------------|-------------------------|
| LR/LURL            | (-0.1~4)Mpa             |
| Pressure Overload  | 150%-Range              |
| Measuring Accuracy | ±0.2% F.S.              |
| Output Signal      | (4~20)mA; 2-wires       |
| Ambient Temp.      | (-40~85)°C              |
| Power Supply       | 24VDC                   |
| Cable Entrance     | Ø7.5mm; TPU Cable       |
| Elec. Wiring       | Red:+,Black:-,Yellow:PE |
| Protection-Grade   | IP68                    |
| Material           | Body:SS316L             |



NOTE:

- 1、All components have PTFE gaskets at the docking connection points. Please tighten them during installation to ensure sufficient compression and contact of the gaskets, ensuring the sealing performance of the connection;
- 2、Please pay attention to protection when laying the cables of sensors to avoid damage caused by friction and bending;
- 3、The cable of the sensor is a model with a breathable tube, and a polymer waterproof plug is installed at the end. Please do not remove or damage the polymer waterproof plug during wiring;
- 4、When installing the junction box, please ensure that the wiring port is facing downwards and the cable is led into the junction box. After wiring is completed, please make sure that the cable gland of the junction box is fully locked and the junction box cover is fully closed to prevent water from entering from outside;

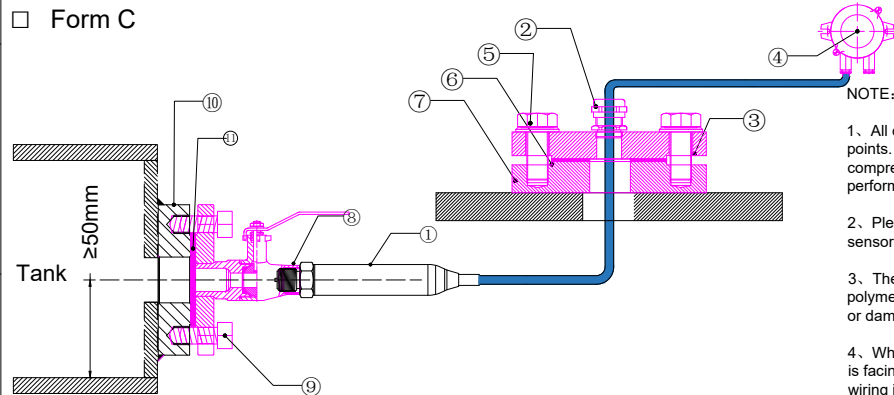
|     |                                                              |                                  |          |                                                              |
|-----|--------------------------------------------------------------|----------------------------------|----------|--------------------------------------------------------------|
| ⑨   | Threaded welding Joint                                       | G1/2"(F)                         | SS316L   | -                                                            |
| ⑧   | 3 ways Test Cock valve                                       | Inlet: G1/2"(M)-Outlet: G1/2"(F) | SS316L   | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ⑦   | Welding Flange installation base                             | Flange: GB/T11693-2010 DN25 PN10 | SS316L   | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ⑥   | Gasket                                                       | PTFE; DN25 PN10                  | SS316L   | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ⑤   | Bolts                                                        | M20X1.5 (6~10mm cable)           | SS316L   | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ④   | <input type="checkbox"/> Copper Explosion-proof junction box | DCJXH202-2; M24; IP56            | Copper   | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
|     | <input type="checkbox"/> Copper waterproof junction box      | JXH202; M24; IP56                | Copper   |                                                              |
| ③   | Flange with Female Thread                                    | M20X1.5; GB/T2506-2005 DN25 PN10 | SS316L   | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ②   | Cable Gland                                                  | M20X1.5; IP56                    | SS316L   | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ①   | Pressure Transmitter                                         | SMP131-TLN                       | -        | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| No. | Items                                                        | Description                      | Material | Supplier                                                     |



**NOTE:**

1. All components have PTFE gaskets at the docking connection points. Please tighten them during installation to ensure sufficient compression and contact of the gaskets, ensuring the sealing performance of the connection;
2. Please pay attention to protection when laying the cables of sensors to avoid damage caused by friction and bending;
3. The cable of the sensor is a model with a breathable tube, and a polymer waterproof plug is installed at the end. Please do not remove or damage the polymer waterproof plug during wiring;
4. When installing the junction box, please ensure that the wiring port is facing downwards and the cable is led into the junction box. After wiring is completed, please make sure that the cable gland of the junction box is fully locked and the junction box cover is fully closed to prevent water from entering from outside;

|     |                                                              |                                                       |          |                                                              |
|-----|--------------------------------------------------------------|-------------------------------------------------------|----------|--------------------------------------------------------------|
| ①   | Gasket                                                       | PTFE: DN25 PN10                                       | PEFE     | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ②   | Flange type installation base                                | Flange: GB/T2506-2005 DN25 PN10<br>Pipe: SCH40S S316L | SS316L   | -                                                            |
| ③   | Threaded welding Joint                                       | G1/2"(F)                                              | SS316L   | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ④   | Flange Ball Valve                                            | GB/T2506-2005 10025RF With G1/2"<br>Female Thread     | SS316L   | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ⑤   | Welding Flange installation base                             | Flange: GB/T11693-2010 DN25 PN10                      | SS316L   | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ⑥   | Gasket                                                       | PTFE: DN25 PN10                                       | SS316L   | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ⑦   | Bolts                                                        | M12-50                                                | SS316L   | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ⑧   | <input type="checkbox"/> Copper Explosion-proof junction box | DCJXH202-2; M24; IP56                                 | Copper   | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
|     | <input type="checkbox"/> Copper waterproof junction box      | JXH202; M24; IP56                                     | Copper   |                                                              |
| ⑨   | Flange with Female Thread                                    | M20X1.5; GB/T2506-2005 DN25 PN10                      | SS316L   | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ⑩   | Cable Gland                                                  | M20X1.5; IP56                                         | SS316L   | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ⑪   | Pressure Transmitter                                         | SMP131-TLN                                            | -        | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| No. | Items                                                        | Description                                           | Material | Supplier                                                     |

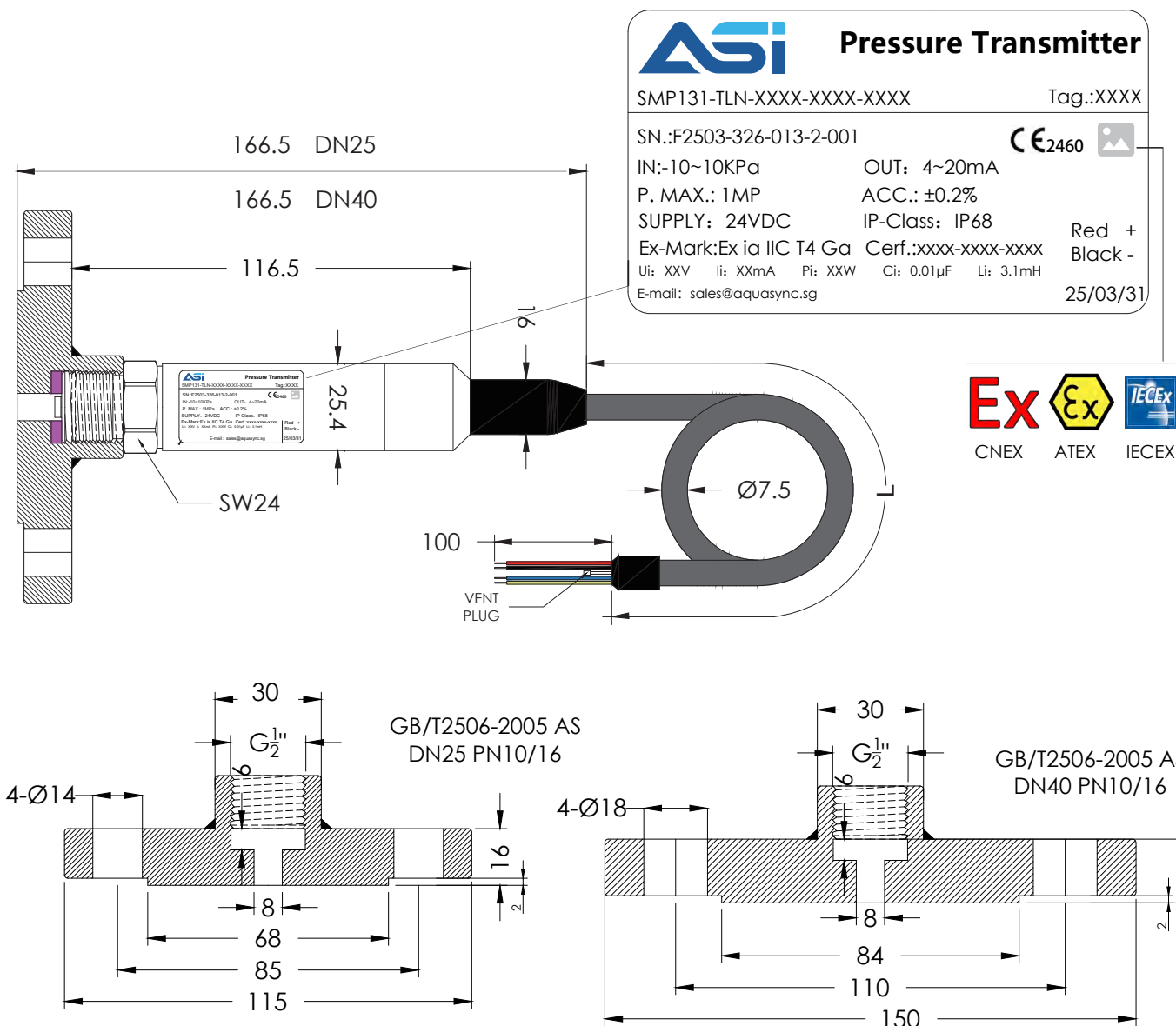


**NOTE:**

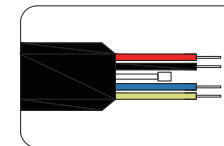
1. All components have PTFE gaskets at the docking connection points. Please tighten them during installation to ensure sufficient compression and contact of the gaskets, ensuring the sealing performance of the connection;
2. Please pay attention to protection when laying the cables of sensors to avoid damage caused by friction and bending;
3. The cable of the sensor is a model with a breathable tube, and a polymer waterproof plug is installed at the end. Please do not remove or damage the polymer waterproof plug during wiring;
4. When installing the junction box, please ensure that the wiring port is facing downwards and the cable is led into the junction box. After wiring is completed, please make sure that the cable gland of the junction box is fully locked and the junction box cover is fully closed to prevent water from entering from outside;

|            |                                                              |                                                |                 |                                                              |
|------------|--------------------------------------------------------------|------------------------------------------------|-----------------|--------------------------------------------------------------|
| ①          | Gasket                                                       | PTFE; DN25 PN10                                | PEFE            | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ②          | Welding Flange installation base                             | Flange: GB/T11693-2010 DN25 PN10               | SS316L          | -                                                            |
| ③          | Threaded welding Joint                                       | G12"(F)                                        | SS316L          | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ④          | Flange Ball Valve                                            | GB/T2506-2005 10025RF With G1/2" Female Thread | SS316L          | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ⑤          | Welding Flange installation base                             | Flange: GB/T11693-2010 DN25 PN10               | SS316L          | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ⑥          | Gasket                                                       | PTFE; DN25 PN10                                | SS316L          | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ⑦          | Bolts                                                        | M12-30                                         | SS316L          | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ⑧          | <input type="checkbox"/> Copper Explosion-proof junction box | DCJXH202-2; M24; IP56                          | Copper          | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
|            | <input type="checkbox"/> Copper waterproof junction box      | JXH202; M24; IP56                              | Copper          |                                                              |
| ⑨          | Flange with Female Thread                                    | M20X1.5; GB/T2506-2005 DN25 PN10               | SS316L          | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ⑩          | Cable Gland                                                  | M20X1.5; IP56                                  | SS316L          | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ⑪          | Pressure Transmitter                                         | SMP131-TLN                                     | -               | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| <b>No.</b> | <b>Items</b>                                                 | <b>Description</b>                             | <b>Material</b> | <b>Supplier</b>                                              |

|      |        |       |       |           |                                                                                      |            |  |                                                       |  |   |  |   |  |   |  |
|------|--------|-------|-------|-----------|--------------------------------------------------------------------------------------|------------|--|-------------------------------------------------------|--|---|--|---|--|---|--|
|      |        |       |       |           |  | TYPE       |  | TITLE <b>Scope of Supply and Installation Diagram</b> |  |   |  |   |  |   |  |
| V1.0 | Luna   | Rex   | Bob   | 2025/8/12 |                                                                                      | SMP131-TLN |  | DRAWING NO.: <b>PT-SMP131-TLN-MT</b>                  |  |   |  |   |  |   |  |
| Ver. | Design | Check | Appr. | Date      |                                                                                      |            |  |                                                       |  |   |  |   |  |   |  |
| 1    |        | 2     |       | 3         |                                                                                      | 4          |  | 5                                                     |  | 6 |  | 7 |  | 8 |  |



## Electrical Wiring



|        |         |  |
|--------|---------|--|
| Mark   | 2-wires |  |
| Red    | +       |  |
| Black  | -       |  |
| Blue   | /       |  |
| Yellow | PE      |  |

## Options

Cable Length(L) m

Process Connection(T)

□G1/2"-Male+DN25      □G1/2"-Male+DN40

Press. Form

☐ Gauge Press.    ☐ Absolute Press.

Diaphragm Material

- SS316L (Freshwater, gas, oil, etc)
- HC-276 (Acid, alkali, seawater, etc)
- Ceramic (Hydrogen, corrosion, wear-resistant)

### Ex-Proof

☐ExiallCT4Ga    ☐N/A  
☐CNEX            ☐ATEX            ☐IECEX

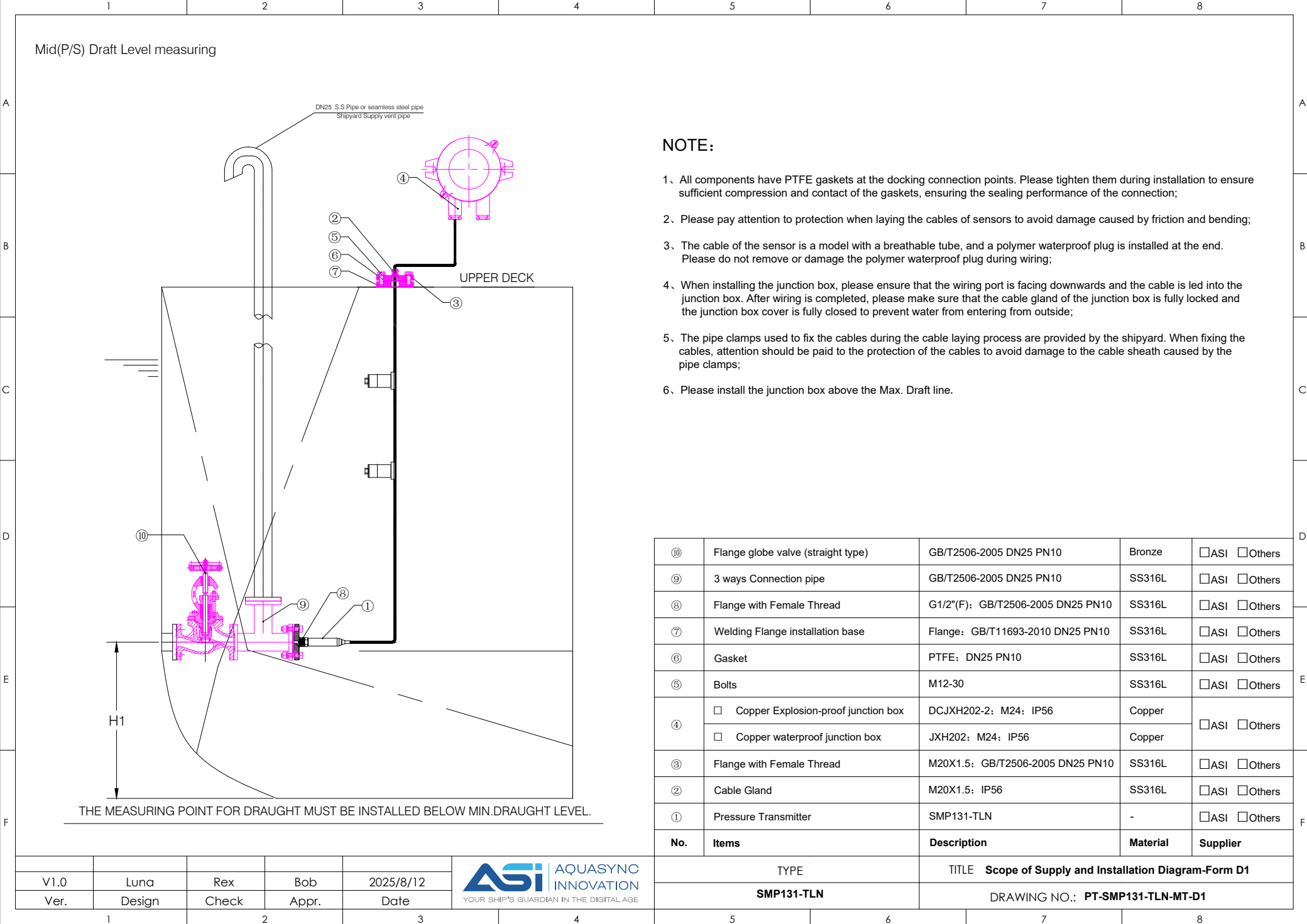
## Measuring Range

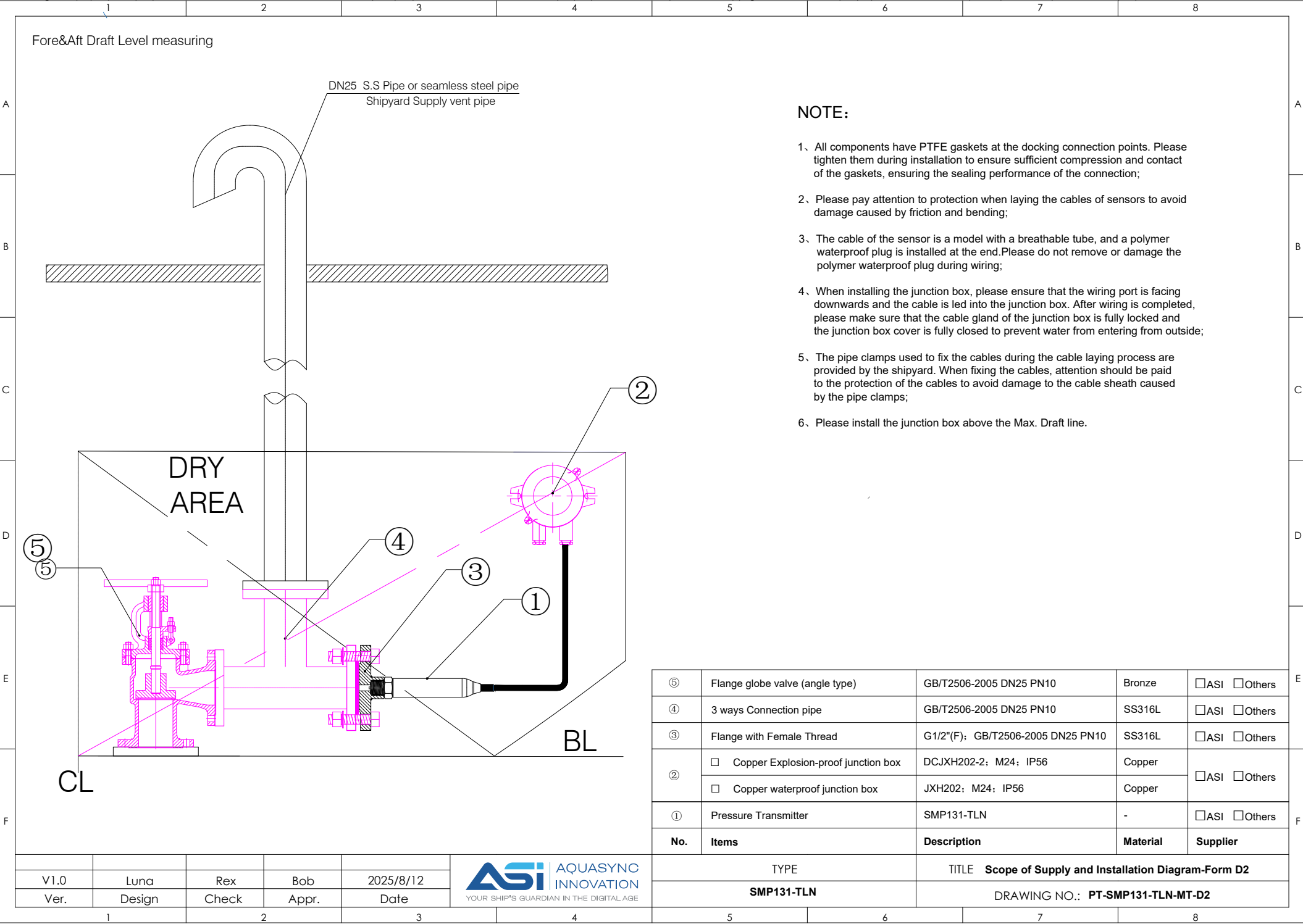
## Technical Parameter

|                    |                              |
|--------------------|------------------------------|
| LRL/URL            | (-0.1~4)Mpa                  |
| Pressure Overload  | 150%-Range                   |
| Measuring Accuracy | ±0.2% F.S.                   |
| Output Signal      | (4~20)mA; 2-wires            |
| Ambient Temp.      | (-40~85)℃                    |
| Power Supply       | 24VDC                        |
| Cable Entrance     | Ø7.5mm; TPU Cable            |
| Elec. Wiring       | Red: +; Black: -; Yellow: PE |
| Protection-Grade   | IP68                         |
| Material           | Body:SS316L                  |

Note: The nameplate information provided is for illustration purposes only. It is intended to show the categories of product information that the nameplate will contain. The actual specific parameters of the sensor will be indicated according to the actual selection.

|      |        |       |       |           |                                                                                                                                 |                   |  |                                          |  |   |  |   |  |   |  |
|------|--------|-------|-------|-----------|---------------------------------------------------------------------------------------------------------------------------------|-------------------|--|------------------------------------------|--|---|--|---|--|---|--|
|      |        |       |       |           | <br>YOUR SHIP'S GUARDIAN IN THE DIGITAL AGE | TYPE              |  | TITLE <b>Pressure Transmitter</b>        |  |   |  |   |  |   |  |
| V1.0 | Luna   | Rex   | Bob   | 2025/8/12 |                                                                                                                                 | <b>SMP131-TLN</b> |  | DRAWING NO.: <b>PT-SMP131-TLN-DS-002</b> |  |   |  |   |  |   |  |
| Ver. | Design | Check | Appr. | Date      |                                                                                                                                 |                   |  |                                          |  |   |  |   |  |   |  |
| 1    |        | 2     |       | 3         |                                                                                                                                 | 4                 |  | 5                                        |  | 6 |  | 7 |  | 8 |  |







|        |         |  |
|--------|---------|--|
| Mark   | 2-wires |  |
| Red    | +       |  |
| Black  | -       |  |
| Blue   | /       |  |
| Yellow | PE      |  |

|                    |                                  |
|--------------------|----------------------------------|
| Process Connection | G1/4"-Male with Protection Cover |
| LRL/URL            | (-0.1~4)Mpa                      |
| Pressure Overload  | 150%-Range                       |
| Measuring Accuracy | ±0.2% F.S.                       |
| Output Signal      | (4~20)mA; 2-wires                |
| Ambient Temp.      | (-40~85) °C                      |
| Power Supply       | 24VDC                            |
| Cable Entrance     | Ø7.5mm; TPU Cable                |
| Elec. Wiring       | Red: +; Black: -; Yellow: PE     |
| Protection-Grade   | IP68; EN 60529/IEC 529           |
| Material           | Body:SS316L                      |

The image shows a label for a pressure transmitter. At the top left is the 'ASI' logo in blue. To its right is the title 'Pressure Transmitter' in bold black text. Below the logo, the model number 'LMP633-NLN-XXXX-XXXX-XXXX' is printed. To the right of the model number is the tag identifier 'Tag.:XXXX'. A horizontal line separates the top section from the bottom section. In the bottom left, the serial number 'SN.:F2503-326-013-2-001' is shown. To its right is a CE mark with the number '2460' and a square icon containing a cross. Below the serial number, the input pressure 'IN: 10~10KPa' and output pressure 'OUT: 4~20mA' are listed. Further down, the maximum pressure 'P. MAX.: 1MPa' and accuracy 'ACC.: ±0.2%' are specified. The supply voltage 'SUPPLY: 24VDC' and IP class 'IP-Class: IP68' are also present. The bottom row contains the marking 'Ex-Mark:Ex ia IIC T4 Ga' and the certification 'Cerf.:xxxx-xxxx-xxxx'. At the very bottom, the contact information 'Ui: XXV li: XXmA Pi: XXW Ci: 0.04µF Li: 1.8mH' and 'E-mail: sales@aquasync.sg' are provided. On the right side, there is a section for color coding: 'Red +', 'Black -', and a date '25/03/31'.

**ASI**

**Pressure Transmitter**

LMP633-NLN-XXXX-XXXX-XXXX

Tag.:XXXX

---

SN.:F2503-326-013-2-001

CE<sub>2460</sub> 

IN: 10~10KPa      OUT: 4~20mA

P. MAX.: 1MPa      ACC.: ±0.2%

SUPPLY: 24VDC      IP-Class: IP68

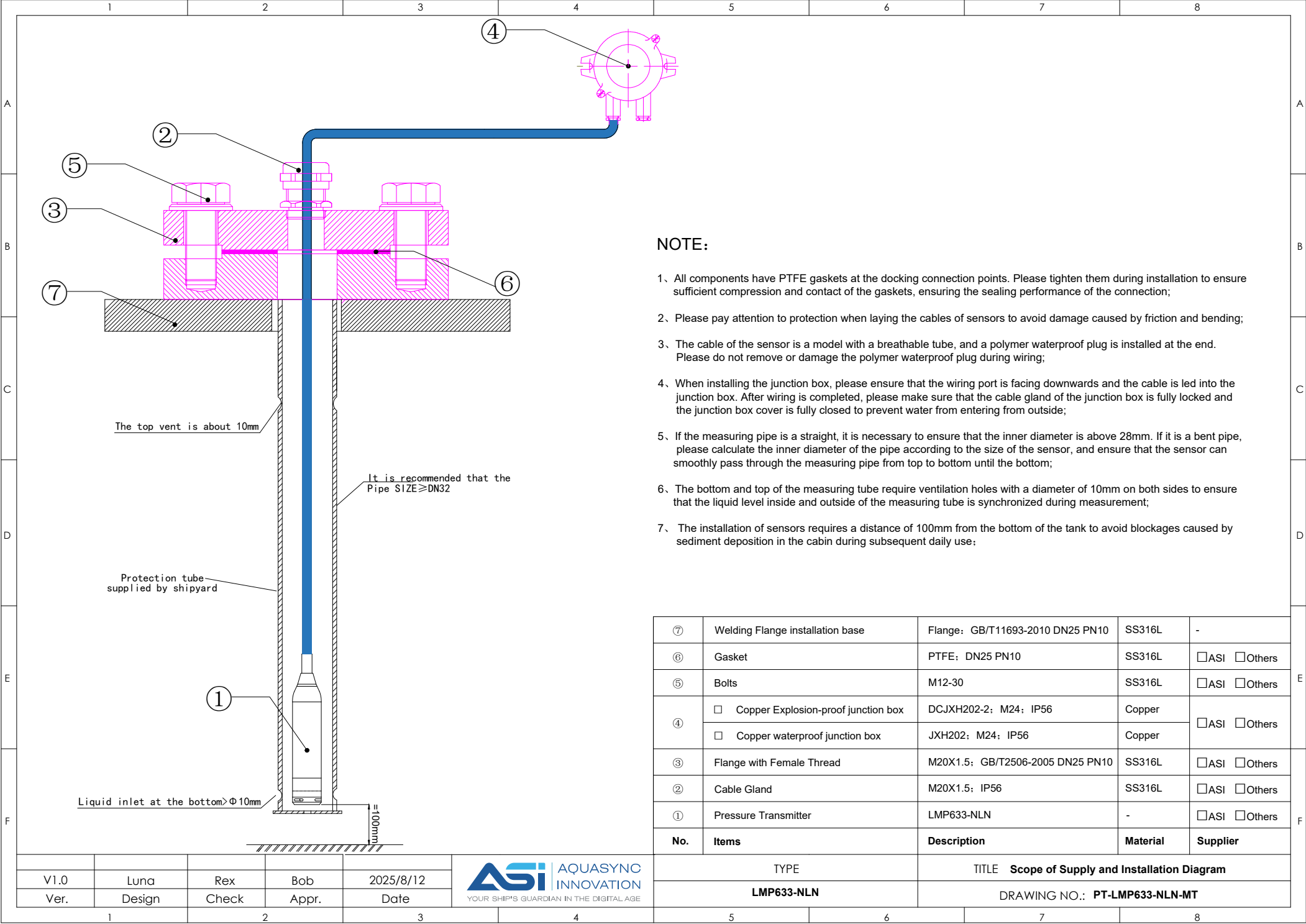
Ex-Mark:Ex ia IIC T4 Ga      Cerf.:xxxx-xxxx-xxxx

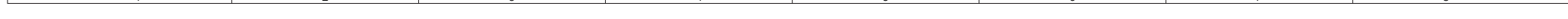
Ui: XXV    li: XXmA    Pi: XXW    Ci: 0.04µF    Li: 1.8mH

E-mail: sales@aquasync.sg

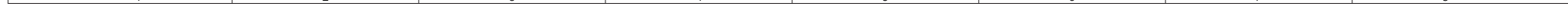
Red +  
Black -  
25/03/31

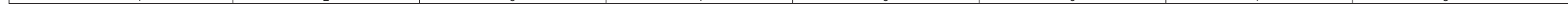
|      |        |       |       |           |                                                                                      |                   |  |                                      |  |   |  |   |  |   |  |
|------|--------|-------|-------|-----------|--------------------------------------------------------------------------------------|-------------------|--|--------------------------------------|--|---|--|---|--|---|--|
|      |        |       |       |           |  | TYPE              |  | TITLE <b>Pressure Transmitter</b>    |  |   |  |   |  |   |  |
| V1.0 | Luna   | Rex   | Bob   | 2025/8/12 |                                                                                      | <b>LMP633-NLN</b> |  | DRAWING NO.: <b>PT-LMP633-NLN-DS</b> |  |   |  |   |  |   |  |
| Ver. | Design | Check | Appr. | Date      |                                                                                      |                   |  |                                      |  |   |  |   |  |   |  |
| 1    |        | 2     |       | 3         |                                                                                      | 4                 |  | 5                                    |  | 6 |  | 7 |  | 8 |  |

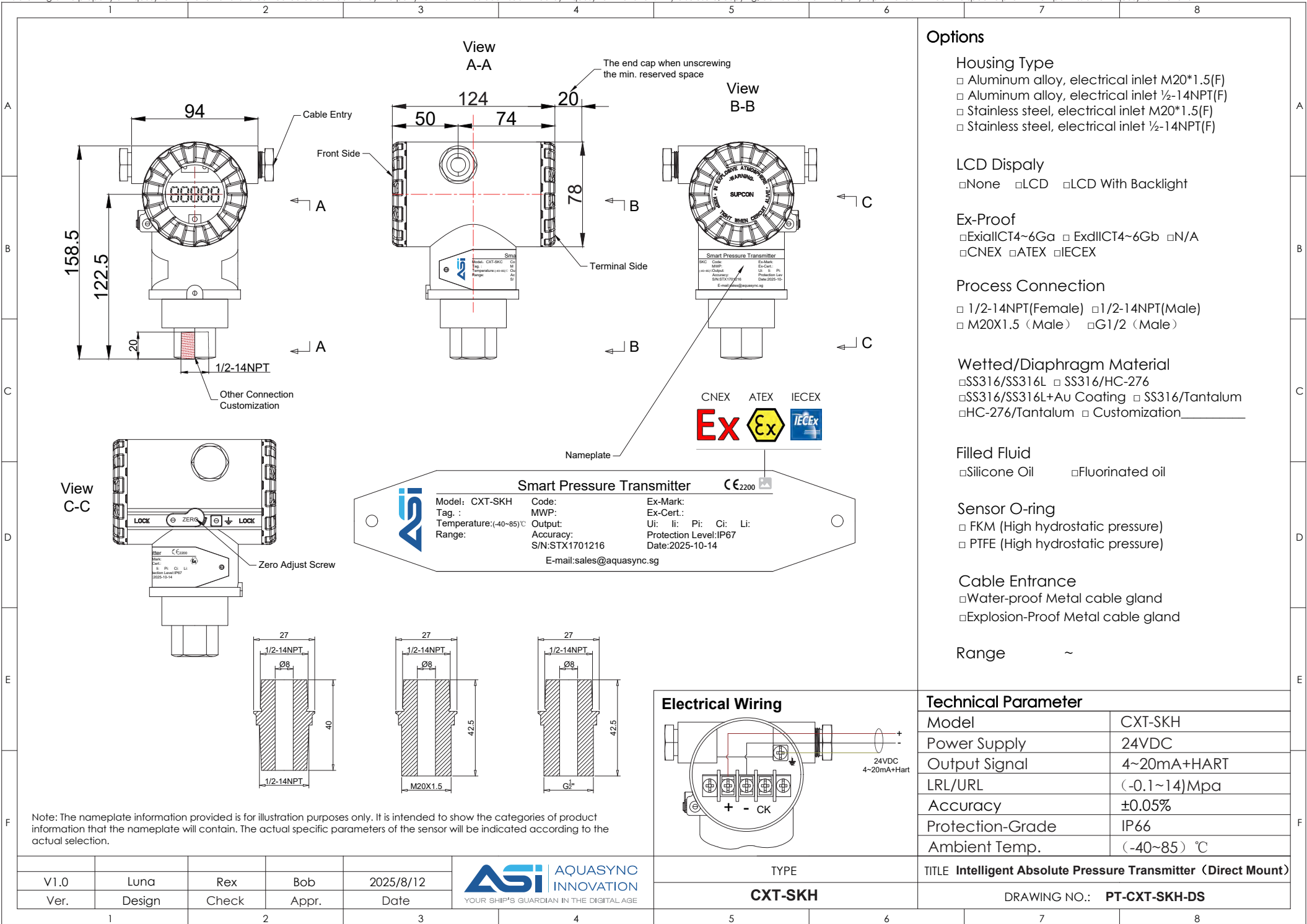


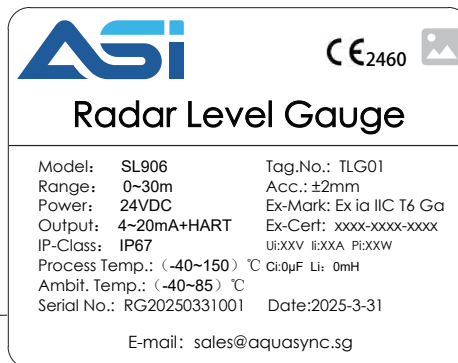
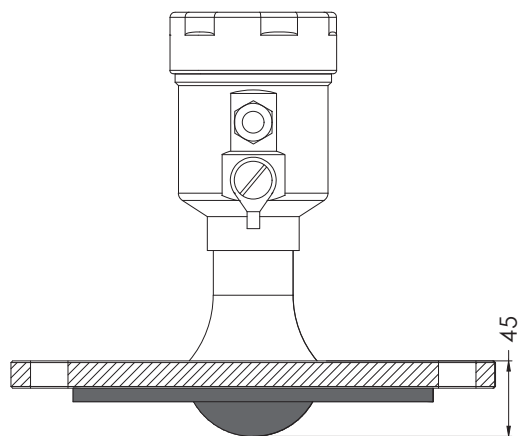
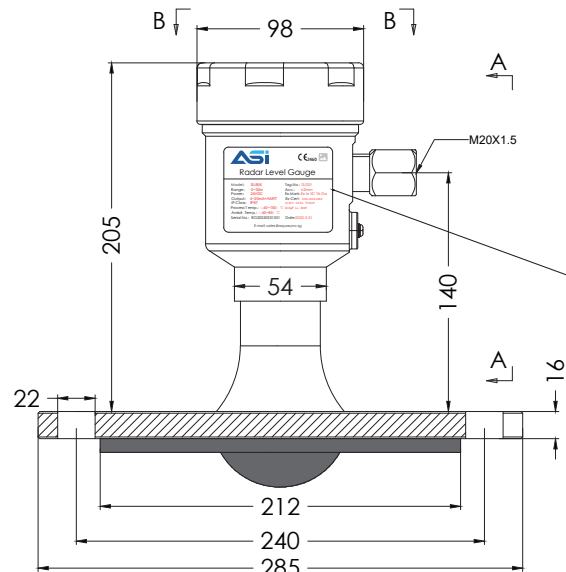












CNEX



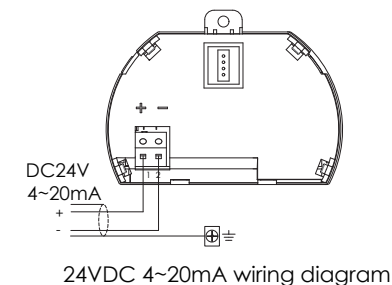
ATEX



IECEX



## Electrical Wiring



## Options

□CNEX

□ ATEX

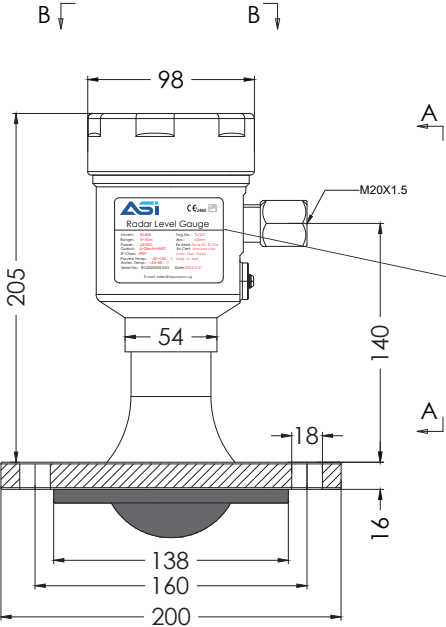
□ IEC EX

## Technical Parameter

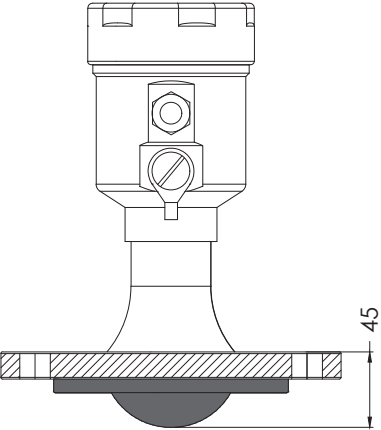
|                    |                       |
|--------------------|-----------------------|
| Measuring Medium   | Liquid                |
| Power Supply       | 24VDC                 |
| Output Signal      | (4~20)mA+HART         |
| Measuring Accuracy | ±2mm                  |
| Measuring Range    | (0~30)m               |
| Ex-Proof           | ExiaIICT6Ga           |
| Protection-Grade   | IP67 EN 60529/IEC 529 |
| Process Temp.      | (-40~150)℃            |
| Material           | SS316L                |
| Beam Width         | 3°                    |
| Pulse Frequency    | 80Hz                  |
| Cable Entrance     | M20X1.5               |

Note: The nameplate information provided is for illustration purposes only. It is intended to show the categories of product information that the nameplate will contain. The actual specific parameters of the sensor will be indicated according to the actual selection.

|      |        |       |       |           |                                                                                                                                 |        |       |                                          |  |   |  |   |  |   |  |
|------|--------|-------|-------|-----------|---------------------------------------------------------------------------------------------------------------------------------|--------|-------|------------------------------------------|--|---|--|---|--|---|--|
|      |        |       |       |           | <br>YOUR SHIP'S GUARDIAN IN THE DIGITAL AGE | WEIGHT | TYPE  | TITLE <b>Microwave Radar Level Gauge</b> |  |   |  |   |  |   |  |
| V1.0 | Luna   | Rex   | Bob   | 2025/8/12 |                                                                                                                                 | 13Kg   | SL906 | DRAWING NO.: <b>LT-SL906-DN150-DS</b>    |  |   |  |   |  |   |  |
| Ver. | Design | Check | Appr. | Date      |                                                                                                                                 |        |       |                                          |  |   |  |   |  |   |  |
| 1    |        | 2     |       | 3         |                                                                                                                                 | 4      |       | 5                                        |  | 6 |  | 7 |  | 8 |  |



View  
A-A







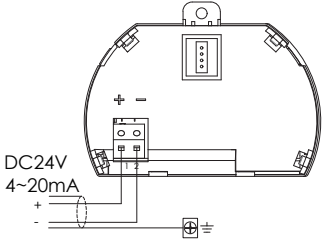
### Radar Level Gauge

|                             |                          |
|-----------------------------|--------------------------|
| Model: SL906                | Tag.No.: TLG01           |
| Range: 0~30m                | Acc.: ±2mm               |
| Power: 24VDC                | Ex-Mark: Ex ia IIC T6 Ga |
| Output: 4~20mA+HART         | Ex-Cert: xxxx-xxxx-xxxx  |
| IP-Class: IP67              | Ui:XXV Ii:XXA Pi:XXW     |
| Process Temp.: (-40~150) °C | Ci:0μF Li: 0mH           |
| Ambit.Temp.: (-40~85) °C    |                          |
| Serial No.: RG20250331001   | Date:2025-3-31           |

E-mail: sales@aquasync.sg



Electrical Wiring



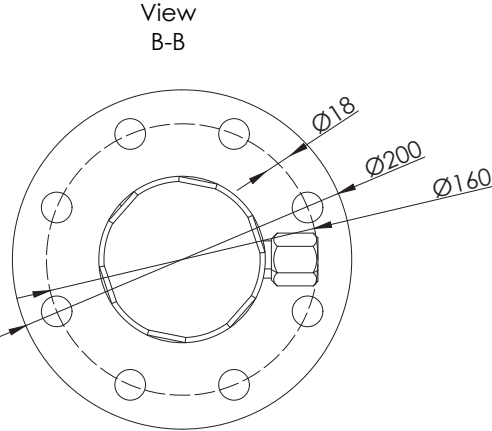
24VDC 4~20mA wiring diagram

Options

☐CNEX                      ☐ATEX                      ☐IECEx

Technical Parameter

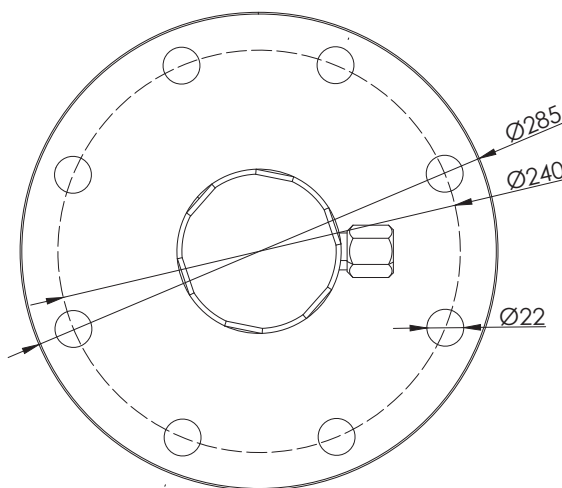
|                    |                       |
|--------------------|-----------------------|
| Measuring Medium   | Liquid                |
| Power Supply       | 24VDC                 |
| Output Signal      | (4~20)mA+HART         |
| Measuring Accuracy | ±2mm                  |
| Measuring Range    | (0~30)m               |
| Ex-Proof           | ExiaIIC T6Ga          |
| Protection-Grade   | IP67 EN 60529/IEC 529 |
| Process Temp.      | (-40~150) °C          |
| Material           | SS316L                |
| Beam Width         | 3°                    |
| Pulse Frequency    | 80Hz                  |
| Cable Entrance     | M20X1.5               |



Flange  
Imitation of  
GB/T9119-2010  
DN80 PN10 (Thickness: 16mm)

Note: The nameplate information provided is for illustration purposes only. It is intended to show the categories of product information that the nameplate will contain.  
The actual specific parameters of the sensor will be indicated according to the actual selection.

|      |        |       |       |           |                                                                                                                                                                           |        |       |                                          |  |
|------|--------|-------|-------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|------------------------------------------|--|
| V1.0 | Luna   | Rex   | Bob   | 2025/8/12 |  <div>AQUASYNC<br/>INNOVATION</div> <div>YOUR SHIP'S GUARDIAN IN THE DIGITAL AGE</div> | WEIGHT | TYPE  | TITLE <b>Microwave Radar Level Gauge</b> |  |
| Ver. | Design | Check | Appr. | Date      |                                                                                                                                                                           | 8Kg    | SL906 | DRAWING NO.: LT-SL906-DN80-DS            |  |



Flange  
Imitation of  
GB/T9119-2010  
DN150 PN10 (Thickness: 16mm)



CE<sub>2460</sub>



## Radar Level Gauge

|                |               |          |                 |
|----------------|---------------|----------|-----------------|
| Model:         | SL906S        | Tag.No.: | TLG01           |
| Range:         | 0~30m         | Acc.:    | ±2mm            |
| Power:         | 24VDC         | Ex-Mark: | Ex ia IIC T6 Ga |
| Output:        | 4~20mA+HART   | Ex-Cert: | XXXX-XXXX-XXXX  |
| IP-Class:      | IP67          | UIX-XX   | XXXX PiXXWX     |
| Process Temp.: | (-40~200) °C  | Ci0rU Li | 0mH             |
| Ambit. Temp.:  | (-40~85) °C   |          |                 |
| Serial No.:    | RG20250331001 | Date:    | 2025-3-31       |

E-mail: [sales@aquasync.sg](mailto:sales@aquasync.sg)

CNEX

Ex

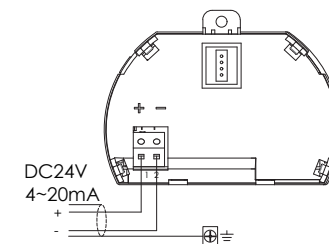
ATEX



IECEX



## Electrical Wiring



### 24VDC 4~20mA wiring diagram

## Options

□CNEX

□ ATEX

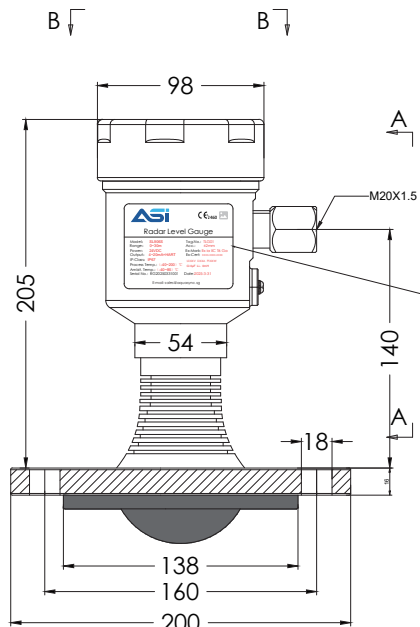
IECEX

| Technical Parameter | Value                   |
|---------------------|-------------------------|
| Material            | Carbon Steel            |
| Dimensions          | 1000mm x 1000mm x 100mm |
| Weight              | 150kg                   |
| Capacity            | 1000kg                  |
| Speed               | 1000rpm                 |
| Power               | 1000W                   |
| Efficiency          | 90%                     |
| Accuracy            | ±0.01mm                 |
| Life Span           | 10 years                |
| Warranty            | 1 year                  |
| Price               | \$1000                  |

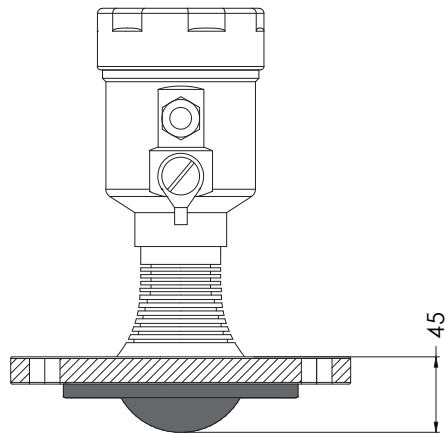
|                    |                       |
|--------------------|-----------------------|
| Measuring Medium   | Liquid                |
| Power Supply       | 24VDC                 |
| Output Signal      | (4~20) mA+HART        |
| Measuring Accuracy | ±2mm                  |
| Measuring Range    | (0~30) m              |
| Ex-Proof           | ExiallCT6Ga           |
| Protection-Grade   | IP67 EN 60529/IEC 529 |
| Process Temp.      | (-40~200) °C          |
| Material           | SS316L                |
| Beam Width         | 3°                    |
| Pulse Frequency    | 80Hz                  |
| Cable Entrance     | M20X1.5               |

Note: The nameplate information provided is for illustration purposes only. It is intended to show the categories of product information that the nameplate will contain. The actual specific parameters of the sensor will be indicated according to the actual selection.

|      |        |       |       |           |                                                                                                                                 |        |        |                                          |  |   |  |   |  |   |  |
|------|--------|-------|-------|-----------|---------------------------------------------------------------------------------------------------------------------------------|--------|--------|------------------------------------------|--|---|--|---|--|---|--|
|      |        |       |       |           | <br>YOUR SHIP'S GUARDIAN IN THE DIGITAL AGE | WEIGHT | TYPE   | TITLE <b>Microwave Radar Level Gauge</b> |  |   |  |   |  |   |  |
| V1.0 | Luna   | Rex   | Bob   | 2025/8/12 |                                                                                                                                 | 13Kg   | SL906S | DRAWING NO.: <b>LT-SL906S-DN150-DS</b>   |  |   |  |   |  |   |  |
| Ver. | Design | Check | Appr. | Date      |                                                                                                                                 |        |        |                                          |  |   |  |   |  |   |  |
| 1    |        | 2     |       | 3         |                                                                                                                                 | 4      |        | 5                                        |  | 6 |  | 7 |  | 8 |  |



View  
A-A



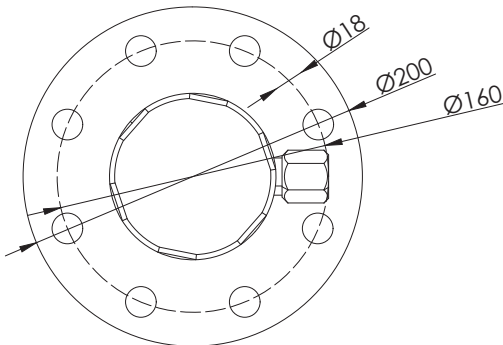


### Radar Level Gauge

|                             |                          |
|-----------------------------|--------------------------|
| Model: SL906S               | Tag.No.: TLG01           |
| Range: 0~30m                | Acc.: ±2mm               |
| Power: 24VDC                | Ex-Mark: Ex ia IIC T6 Ga |
| Output: 4~20mA+HART         | Ex-Cert: xxxx-xxxx-xxxx  |
| IP-Class: IP67              | Ui:XXV li:XXA Pi:XXW     |
| Process Temp.: (-40~200) °C | C: 0μF Li:0mH            |
| Ambit. Temp.: (-40~85) °C   |                          |
| Serial No.: RG20250331001   | Date:2025-3-31           |

E-mail: sales@aquasync.sg

View  
B-B



Flange  
Imitation of  
GB/T9119-2010  
DN80 PN10 (Thickness: 16mm)

CNEX



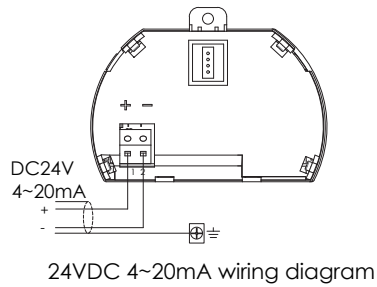
ATEX



IECEX



### Electrical Wiring



### Options

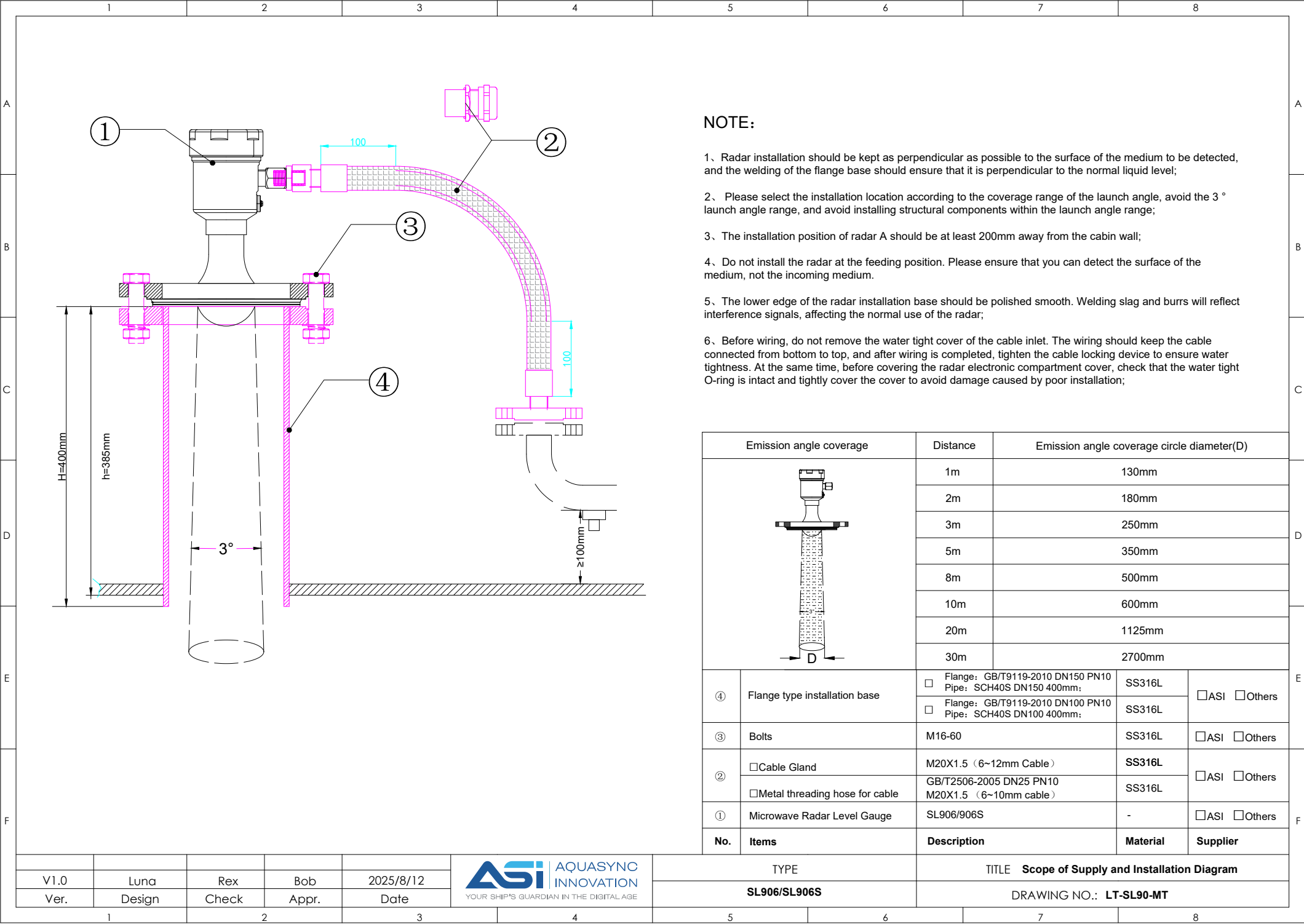
- ☐CNEX
- ☐ATEX
- ☐IECEX

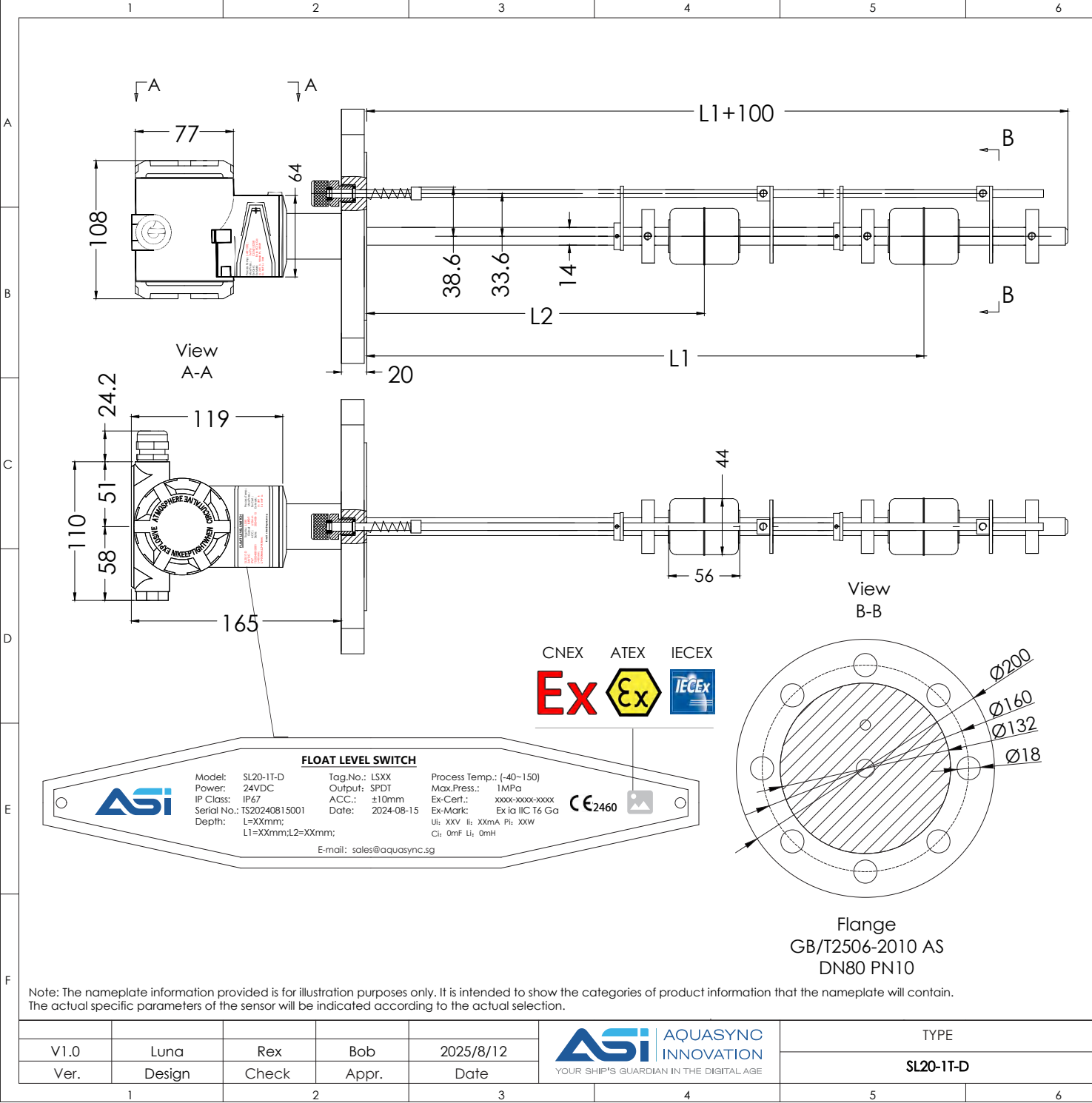
### Technical Parameter

|                    |                       |
|--------------------|-----------------------|
| Measuring Medium   | Liquid                |
| Power Supply       | 24VDC                 |
| Output Signal      | (4~20)mA+HART         |
| Measuring Accuracy | ±2mm                  |
| Measuring Range    | (0~30)m               |
| Ex-Proof           | ExiaIIC T6Ga          |
| Protection-Grade   | IP67 EN 60529/IEC 529 |
| Process Temp.      | (-40~200) °C          |
| Material           | SS316L                |
| Beam Width         | 3°                    |
| Pulse Frequency    | 80Hz                  |
| Cable Entrance     | M20X1.5               |

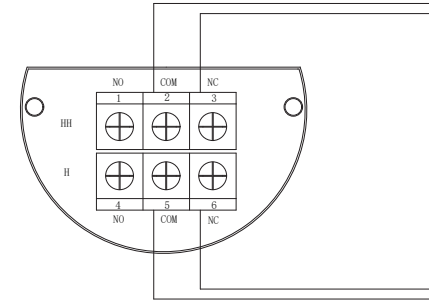
Note: The nameplate information provided is for illustration purposes only. It is intended to show the categories of product information that the nameplate will contain.  
The actual specific parameters of the sensor will be indicated according to the actual selection.

|      |        |       |       |           |                                                                                                                                                                           |        |        |                                          |  |
|------|--------|-------|-------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|------------------------------------------|--|
| V1.0 | Luna   | Rex   | Bob   | 2025/8/12 |  <div>AQUASYNC<br/>INNOVATION</div> <div>YOUR SHIP'S GUARDIAN IN THE DIGITAL AGE</div> | WEIGHT | TYPE   | TITLE <b>Microwave Radar Level Gauge</b> |  |
| Ver. | Design | Check | Appr. | Date      |                                                                                                                                                                           | 8kg    | SL906S | DRAWING NO.: LT-SL906S-DN80-DS           |  |





Electrical Wiring



Options

☐CNEX ☐ATEX ☐IECEX

Inner Depth

L1 mm

L2 mm

Housing Material

☐SS316L ☐Alloy

Technical Parameter

|                      |                                |
|----------------------|--------------------------------|
| Process Connection   | GB/T 2506-2005 AS<br>DN80 PN10 |
| Wetted Part Material | S316L                          |
| Model                | SL20-1T-D                      |
| Power Supply         | /                              |
| Output Signal        | SPDTX2                         |
| Contact Capacity     | 24VDC 100mA                    |
| Ex-Proof             | Exia IIC T6 Ga                 |
| Protection-Grade     | IP67                           |
| Process Press.       | (-0.1~1)MPa                    |
| Ambient Temp.        | (-40~85)℃                      |
| Cable Entrance       | M20X1.5                        |

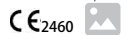
Note: The nameplate information provided is for illustration purposes only. It is intended to show the categories of product information that the nameplate will contain.  
The actual specific parameters of the sensor will be indicated according to the actual selection.

|      |        |       |       |           |                                                                          |      |           |                              |  |
|------|--------|-------|-------|-----------|--------------------------------------------------------------------------|------|-----------|------------------------------|--|
| V1.0 | Luna   | Rex   | Bob   | 2025/8/12 | ASI<br>AQUASYNC<br>INNOVATION<br>YOUR SHIP'S GUARDIAN IN THE DIGITAL AGE | TYPE | SL20-1T-D | TITLE Float Level Switch     |  |
| Ver. | Design | Check | Appr. | Date      |                                                                          |      |           | DRAWING NO.: LS-SL20-1T-D-DS |  |
| 1    | 2      | 3     | 4     | 5         | 6                                                                        | 7    | 8         |                              |  |



CNEX      ATEX      IECEx

**Ex**            



### FLOAT LEVEL SWITCH

|             |                    |          |            |                                        |                 |
|-------------|--------------------|----------|------------|----------------------------------------|-----------------|
| Model:      | SL20-1T-5          | Tag.No.: | LSXX       | Process Temp.:                         | (-40~150)       |
| Power:      | 24VDC              | Output:  | SPDT       | Max.Press.:                            | 1MPa            |
| IP Class:   | IP67               | ACC.:    | ±10mm      | Ex-Cert.:                              | xxxx-xxxx-xxxx  |
| Serial No.: | TS20240815001      | Date:    | 2024-08-15 | Ex-Mark:                               | Ex ia IIC T6 Gc |
| Depth:      | L=XXmm;<br>L1=XXmm |          |            | U: XXV I: XXmA P: XXW<br>C: 0mF U: 0mH |                 |

E-mail: [sales@aquasync.sa](mailto:sales@aquasync.sa)

Note: The nameplate information provided is for illustration purposes only. It is intended to show the categories of product information that the nameplate will contain. The actual specific parameters of the sensor will be indicated according to the actual selection.

|      |        |       |       |           |                                                                                      |           |  |                                     |  |   |  |   |  |   |  |
|------|--------|-------|-------|-----------|--------------------------------------------------------------------------------------|-----------|--|-------------------------------------|--|---|--|---|--|---|--|
|      |        |       |       |           |  | TYPE      |  | TITLE <b>Float Level Switch</b>     |  |   |  |   |  |   |  |
| V1.0 | Luna   | Rex   | Bob   | 2025/8/12 |                                                                                      | SL20-1T-S |  | DRAWING NO.: <b>LS-SL20-1T-S-DS</b> |  |   |  |   |  |   |  |
| Ver. | Design | Check | Appr. | Date      |                                                                                      |           |  |                                     |  |   |  |   |  |   |  |
| 1    |        | 2     |       | 3         |                                                                                      | 4         |  | 5                                   |  | 6 |  | 7 |  | 8 |  |

The diagram shows a 3-position selector switch. It has three positions labeled 1, 2, and 3. Each position has a corresponding contact labeled NO (Normally Open), COM (Common), and NC (Normally Closed). The switch is shown in a semi-circular housing with two mounting holes. Wires are connected to the COM and NC contacts.

☐CNEX      ☐ATEX      ☐IECEX

## Inner Depth

L mm

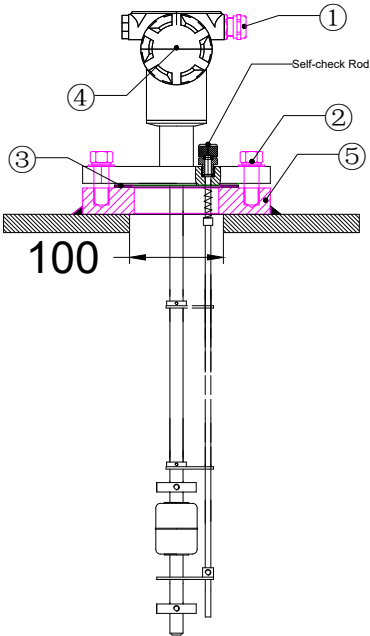
Housing Material

□SS316L    □Alloy

## Technical Parameter

|                      |                                |
|----------------------|--------------------------------|
| Process Connection   | GB/T 2506-2005 AS<br>DN80 PN10 |
| Wetted Part Material | S316L                          |
| Model                | SL20-1T-S                      |
| Power Supply         | /                              |
| Output Signal        | SPDTX1                         |
| Contact Capacity     | 24VDC 100mA                    |
| Ex-Proof             | ExiaIICT6Ga                    |
| Protection-Grade     | IP67                           |
| Process Press.       | (-0.1~1) MPa                   |
| Ambient Temp.        | (-40~85) °C                    |
| Cable Entrance       | M20X1.5                        |

Form A



NOTE:

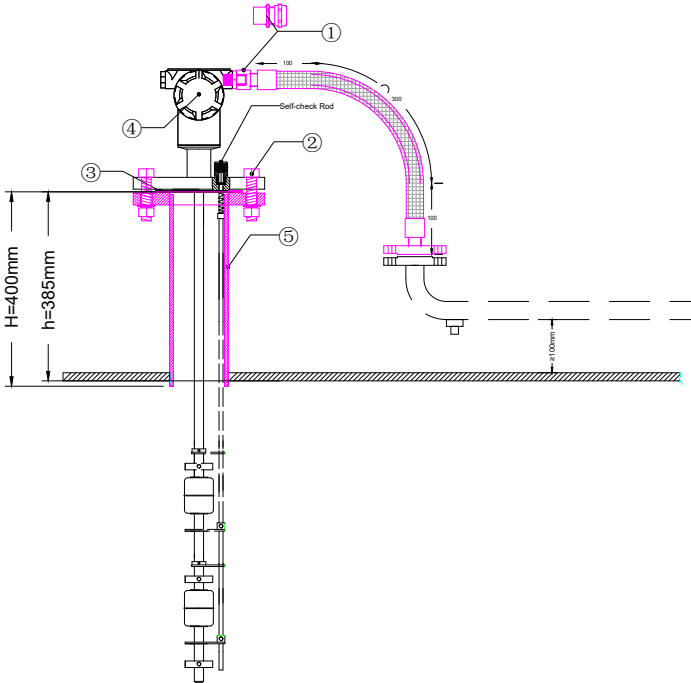
- 1、The installation form of the welding seat requires a hole of 100mm at the measuring point;
- 2、During equipment installation, it is prohibited to open the waterproof cover of the cable inlet before wiring;
- 3、This equipment is equipped with a self checking device. After loosening the nut, the self checking rod can be lifted to test the working status of the equipment. After the test is completed, the self checking rod can be lowered and the nut tightened to prevent leakage or false alarm in the container;
- 4、Before wiring, do not remove the water tight cover of the cable inlet. The wiring should keep the cable connected from bottom to top, and after wiring is completed, tighten the cable locking device to ensure water tightness.

|     |                                  |                                    |          |                                                              |
|-----|----------------------------------|------------------------------------|----------|--------------------------------------------------------------|
| ⑤   | Welding Flange installation base | Flange: GB/T11693-2010 DN80 PN10   | SS316L   | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ④   | Float Level Gauge                | <input type="checkbox"/> SL20-1T-S | SS316L   | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
|     |                                  | <input type="checkbox"/> SL20-1T-D | SS316L   |                                                              |
| ③   | Gasket                           | PTFE: DN80 PN10                    | PTFE     | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ②   | Bolts                            | M16-40                             | SS316L   | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ①   | Cable Gland                      | M20X1.5 (6~12mm Cable)             | SS316L   | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| No. | Items                            | Description                        | Material | Supplier                                                     |

|      |        |       |       |           |
|------|--------|-------|-------|-----------|
| V1.0 | Luna   | Rex   | Bob   | 2025/8/12 |
| Ver. | Design | Check | Appr. | Date      |



Form B



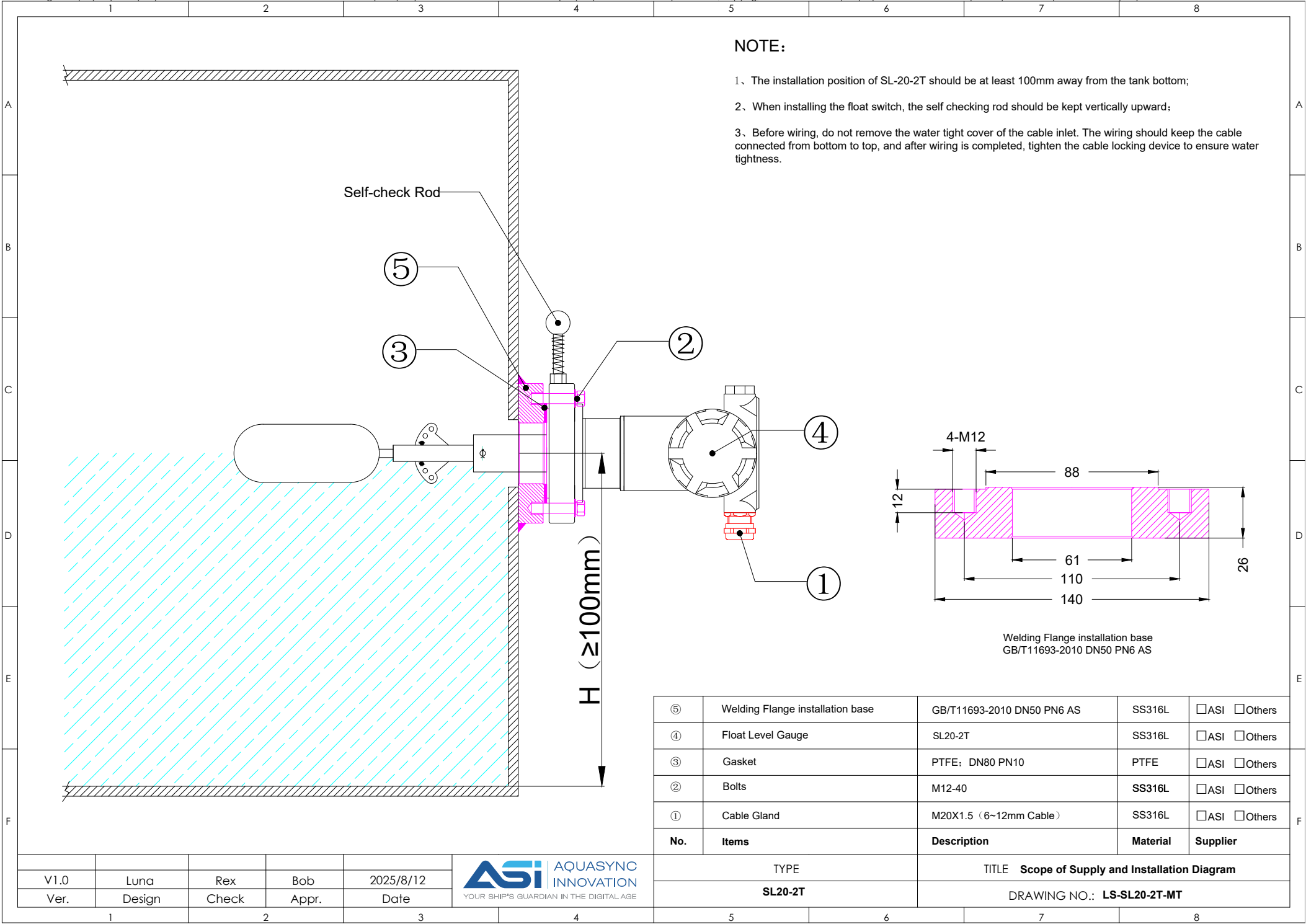
NOTE:

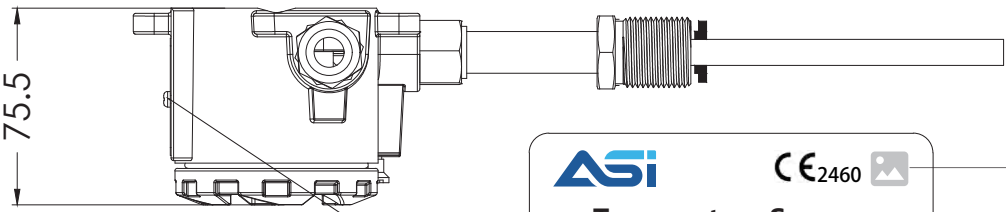
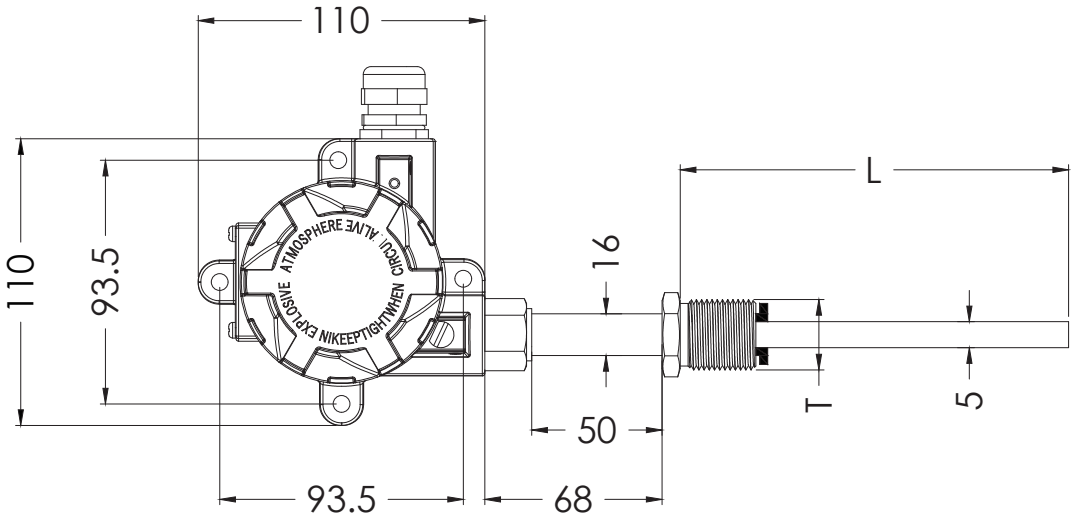
- 1、During equipment installation, it is prohibited to open the waterproof cover of the cable inlet before wiring;
- 2、This equipment is equipped with a self checking device. After loosening the nut, the self checking rod can be lifted to test the working status of the equipment. After the test is completed, the self checking rod can be lowered and the nut tightened to prevent leakage or false alarm in the container;
- 3、Before wiring, do not remove the water tight cover of the cable inlet. The wiring should keep the cable connected from bottom to top, and after wiring is completed, tighten the cable locking device to ensure water tightness.

|     |                                                         |                                                             |          |                                                              |
|-----|---------------------------------------------------------|-------------------------------------------------------------|----------|--------------------------------------------------------------|
| ⑤   | Flange type installation base                           | Flange: GB/T2506-2005 DN80 PN10<br>Pipe: SCH40S DN80 400mm: | SS316L   | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ④   | Float Level Gauge                                       | <input type="checkbox"/> SL20-1T-S                          | SS316L   | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
|     |                                                         | <input type="checkbox"/> SL20-1T-D                          | SS316L   |                                                              |
| ③   | Gasket                                                  | PTFE: DN80 PN10                                             | PTFE     | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ②   | Bolts                                                   | M16-60                                                      | SS316L   | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ①   | <input type="checkbox"/> Cable Gland                    | M20X1.5 (6~12mm cable)                                      | SS316L   | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
|     | <input type="checkbox"/> Metal threading hose for cable | GB/T2506-2005 DN25 PN10<br>M20X1.5 (6~12mm cable)           | SS316L   |                                                              |
| No. | Items                                                   | Description                                                 | Material | Supplier                                                     |

|         |  |                                                |  |  |
|---------|--|------------------------------------------------|--|--|
| TYPE    |  | TITLE Scope of Supply and Installation Diagram |  |  |
| SL20-1T |  | DRAWING NO.: LS-SL20-1T-MT                     |  |  |

|      |        |       |       |           |                                                                                                                                 |        |         |                            |  |   |  |   |  |   |  |
|------|--------|-------|-------|-----------|---------------------------------------------------------------------------------------------------------------------------------|--------|---------|----------------------------|--|---|--|---|--|---|--|
|      |        |       |       |           | <br>YOUR SHIP'S GUARDIAN IN THE DIGITAL AGE | WEIGHT | TYPE    | TITLE Float Level Switch   |  |   |  |   |  |   |  |
| V1.0 | Luna   | Rex   | Bob   | 2025/8/12 |                                                                                                                                 | 7.8Kg  | SL20-2T | DRAWING NO.: LS-SL20-2T-DS |  |   |  |   |  |   |  |
| Ver. | Design | Check | Appr. | Date      |                                                                                                                                 |        |         |                            |  |   |  |   |  |   |  |
| 1    |        | 2     |       | 3         |                                                                                                                                 | 4      |         | 5                          |  | 6 |  | 7 |  | 8 |  |







**Temperature Sensor**

Model: WZPK Tag.: TS01  
Range: 0~100°C  
ACC.: A-Class  
Output: PT100-3wries  
IP Class: IP67  
Ex Mark: Ex ia IIC T6 Ga  
Ex Cert.: xxxx-xxxx-xxxx  
Ui: XXV li: XXmA Pi: XXW  
Ci: 0.044μF Li: 0mH  
Serial No.:TS20250331001  
Date: 2025-03-31  
E-mail: sales@aquasync.sg

CNEX



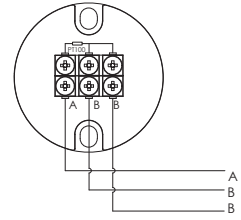
ATEX



IECEX



Electrical Wiring



Options

- ☐CNEX
- ☐ATEX
- ☐IECEX

Process Connection(T)

- ☐G1/2"-Male
- ☐G1"-Male
- ☐M20X1.5-Male

Housing Material

- ☐SS316L
- Alloy

Wetted part

- ☐SS316L
- ☐SS2205
- ☐HC-276
- SS304
- Ti

Accuracy

- ☐A-Class:+(0.15+0.002 | T | )
- ☐B-Class:+(0.3+0.005 | T | )

Measuring Range

~ °C

Inner Depth

L mm

Technical Parameter

|                  |               |
|------------------|---------------|
| Model            | WZPK          |
| Power Supply     | /             |
| Output Signal    | PT100         |
| LRL/URL          | (-200~850) °C |
| Ex-Proof         | ExiaIIC T6 Ga |
| Protection-Grade | IP67          |
| Ambient Temp.    | (-40~85) °C   |
| Cable Entrance   | M20X1.5       |

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The actual specific parameters of the sensor will be indicated according to the actual selection.

|      |        |       |       |           |
|------|--------|-------|-------|-----------|
| V1.0 | Luna   | Rex   | Bob   | 2025/8/12 |
| Ver. | Design | Check | Appr. | Date      |

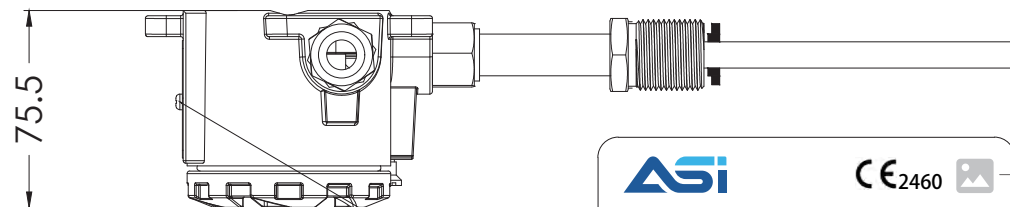


AQUASYNC  
INNOVATION

YOUR SHIP'S GUARDIAN IN THE DIGITAL AGE

|      |
|------|
| TYPE |
| WZPK |

|              |                    |
|--------------|--------------------|
| TITLE        | Temperature Sensor |
| DRAWING NO.: | TS-WZPK-DS         |



ASI | AQUASYNC  
INNOVATION  
YOUR SHIP'S GUARDIAN IN THE DIGITAL AGE

TYPE  
**WZPB**

☐CNEX      ☐ATEX      ☐IECEX

☐ G1/2"-Male                      ☐ G1"-Male  
☐ M20X1.5-Male

□SS316L Alloy

☐ SS316L                  SS304  
☐ SS2205                Ti  
☐ HC-276

Inner Depth  
L mm

|                  |             |
|------------------|-------------|
| Model            | WZPB        |
| Accuracy         | ±0.5%F.S    |
| Power Supply     | 24VDC       |
| Output Signal    | (4~20)mA    |
| LRL/URL          | (-200~850)℃ |
| Ex-Proof         | ExiallCT6Ga |
| Protection-Grade | IP67        |
| Ambient Temp.    | (-40~85)℃   |
| Cable Entrance   | M20X1.5     |

|                  |             |
|------------------|-------------|
| Model            | WZPB        |
| Accuracy         | ±0.5%F.S    |
| Power Supply     | 24VDC       |
| Output Signal    | (4~20)mA    |
| LRL/URL          | (-200~850)℃ |
| Ex-Proof         | ExiaIICT6Ga |
| Protection-Grade | IP67        |
| Ambient Temp.    | (-40~85)℃   |
| Cable Entrance   | M20X1.5     |

|      |        |       |       |           |                                                                                                                                                                             |      |  |                                      |  |   |  |   |  |   |  |
|------|--------|-------|-------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--|--------------------------------------|--|---|--|---|--|---|--|
|      |        |       |       |           |  <b>AQUASYNC</b><br>INNOVATION<br><small>YOUR SHIP'S GUARDIAN IN THE DIGITAL AGE</small> | TYPE |  | TITLE <b>Temperature Transmitter</b> |  |   |  |   |  |   |  |
| V1.0 | Luna   | Rex   | Bob   | 2025/8/12 |                                                                                                                                                                             | WZPB |  | DRAWING NO.: <b>TT-WZPB-DS</b>       |  |   |  |   |  |   |  |
| Ver. | Design | Check | Appr. | Date      |                                                                                                                                                                             |      |  |                                      |  |   |  |   |  |   |  |
| 1    |        | 2     |       | 3         |                                                                                                                                                                             | 4    |  | 5                                    |  | 6 |  | 7 |  | 8 |  |



☐CNEX      ☐ATEX      ☐IECEX

☐ G1/2"-Male                      ☐ G1"-Male  
☐ M20X1.5-Male

□SS316L Alloy

☐ SS316L                  SS304  
☐ SS2205                Ti  
☐ HC-276

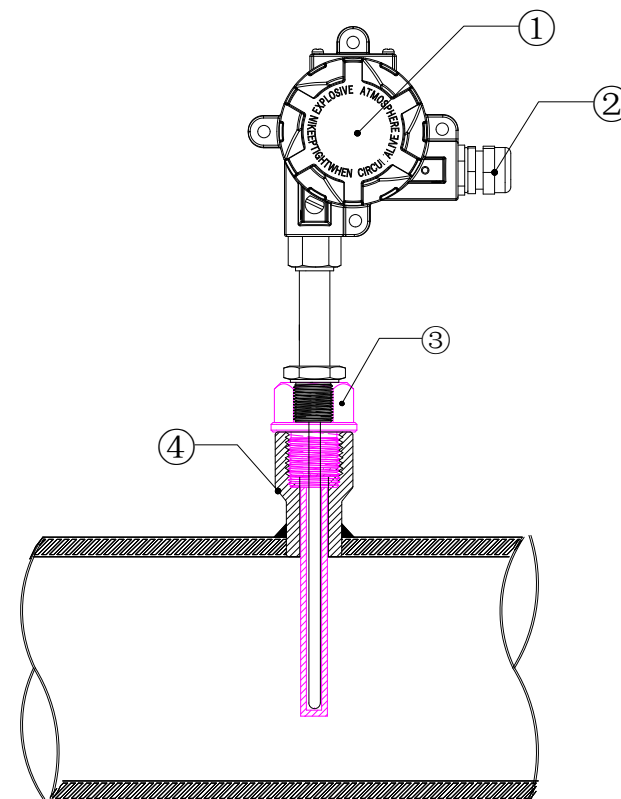
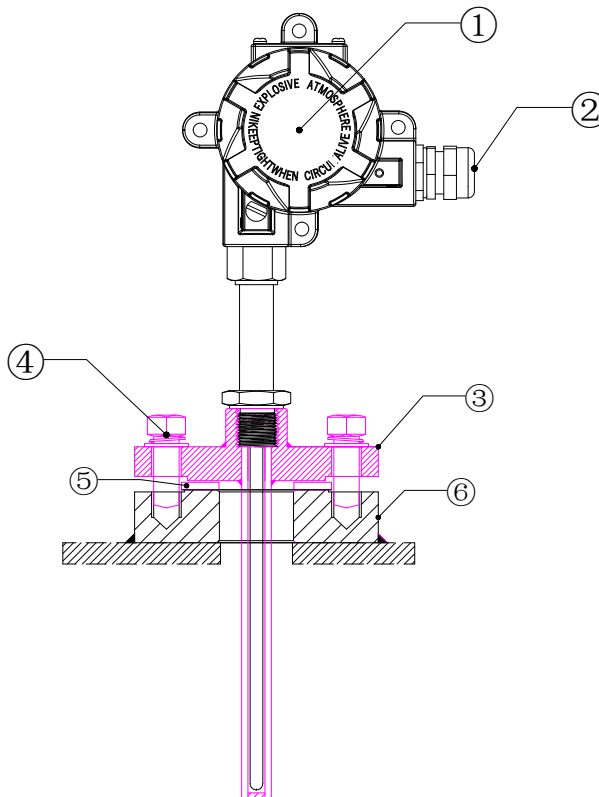
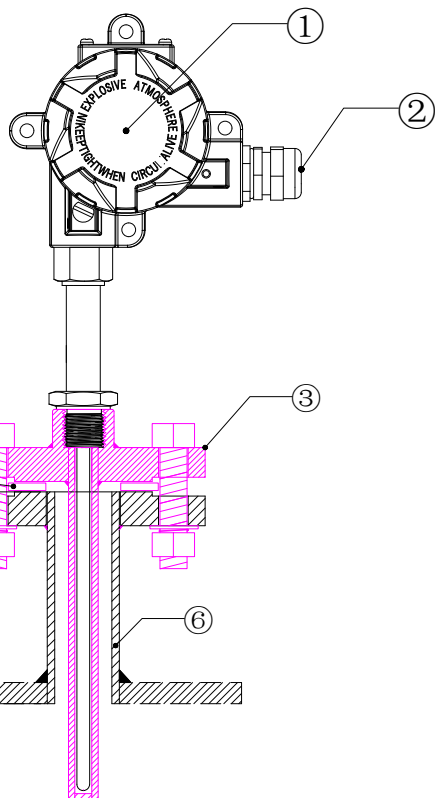
 $\sim$  °C

## L mm

|                  |                          |
|------------------|--------------------------|
| Model            | WZPBS (with LCD Display) |
| Accuracy         | ±0.5%F.S                 |
| Power Supply     | 24VDC                    |
| Output Signal    | (4~20)mA                 |
| LRL/URL          | (-200~850)℃              |
| Ex-Proof         | ExiallCT6Ga              |
| Protection-Grade | IP67                     |
| Ambient Temp.    | (-40~85)℃                |
| Cable Entrance   | M20X1.5                  |

Note: The nameplate information provided is for illustration purposes only. It is intended to show the categories of product information that the nameplate will contain. The actual specific parameters of the sensor will be indicated according to the actual selection.

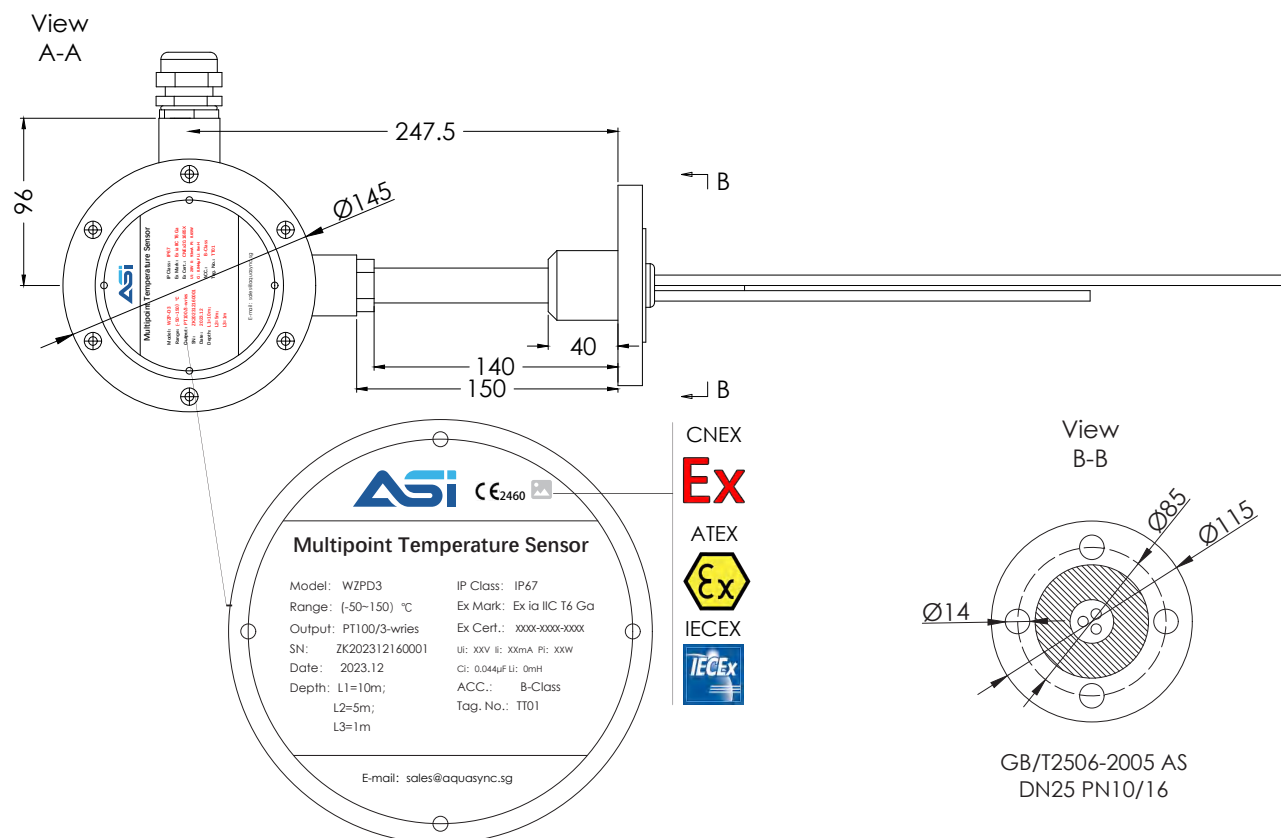
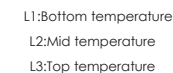
|      |        |       |       |           |                                                                                      |              |  |                                                   |  |   |  |   |  |   |  |
|------|--------|-------|-------|-----------|--------------------------------------------------------------------------------------|--------------|--|---------------------------------------------------|--|---|--|---|--|---|--|
|      |        |       |       |           |  | TYPE         |  | TITLE <b>Temperature Transmitter(LCD Display)</b> |  |   |  |   |  |   |  |
| V1.0 | Luna   | Rex   | Bob   | 2025/8/12 |                                                                                      | <b>WZPBS</b> |  | DRAWING NO.: <b>TT-WZPBS-DS</b>                   |  |   |  |   |  |   |  |
| Ver. | Design | Check | Appr. | Date      |                                                                                      |              |  |                                                   |  |   |  |   |  |   |  |
| 1    |        | 2     |       | 3         |                                                                                      | 4            |  | 5                                                 |  | 6 |  | 7 |  | 8 |  |



|     |                                       |                                                       |          |                                                              |     |                                       |                                                   |          |                                                              |
|-----|---------------------------------------|-------------------------------------------------------|----------|--------------------------------------------------------------|-----|---------------------------------------|---------------------------------------------------|----------|--------------------------------------------------------------|
| ⑥   | Flange type installation base         | Flange: GB/T2506-2005 DN25 PN10<br>Pipe: SCH40S S316L | SS316L   | -                                                            | ⑥   | Welding Flange installation base      | Flange: GB/T11693-2010 DN25 PN10                  | SS316L   | -                                                            |
| ⑤   | Gasket                                | PTFE: DN25 PN10                                       | PTFE     | <input type="checkbox"/> ASI <input type="checkbox"/> Others | ⑤   | Gasket                                | PTFE: DN25 PN10                                   | PTFE     | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ④   | Bolts                                 | M12-50                                                | SS316L   | <input type="checkbox"/> ASI <input type="checkbox"/> Others | ④   | Bolts                                 | M12-30                                            | SS316L   | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ③   | Flange Type thermal protective sleeve | GB/T 2506-2005 DN25 PN10:<br>M20X1.5(Female)φ14mm     | SS316L   | <input type="checkbox"/> ASI <input type="checkbox"/> Others | ③   | Flange Type thermal protective sleeve | GB/T 2506-2005 DN25 PN10:<br>M20X1.5(Female)φ14mm | SS316L   | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ②   | Cable Gland                           | M20X1.5 ( 6~12mm Cable )                              | SS316L   | <input type="checkbox"/> ASI <input type="checkbox"/> Others | ②   | Cable Gland                           | M20X1.5 ( 6~12mm Cable )                          | SS316L   | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ①   | Temperature Sensor&Transmitter        | WZPBS:4~20mA Output with Display                      | -        | <input type="checkbox"/> ASI <input type="checkbox"/> Others | ①   | Temperature Sensor&Transmitter        | WZPBS:4~20mA Output with Display                  | -        | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
|     |                                       | WZPB:4~20mA Output without Display                    | -        | <input type="checkbox"/> ASI <input type="checkbox"/> Others |     |                                       | WZPB:4~20mA Output without Display                | -        | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
|     |                                       | WZPK:PT100 Output                                     | -        | <input type="checkbox"/> ASI <input type="checkbox"/> Others |     |                                       | WZPK:PT100 Output                                 | -        | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| No. | Items                                 | Description                                           | Material | Supplier                                                     | No. | Items                                 | Description                                       | Material | Supplier                                                     |

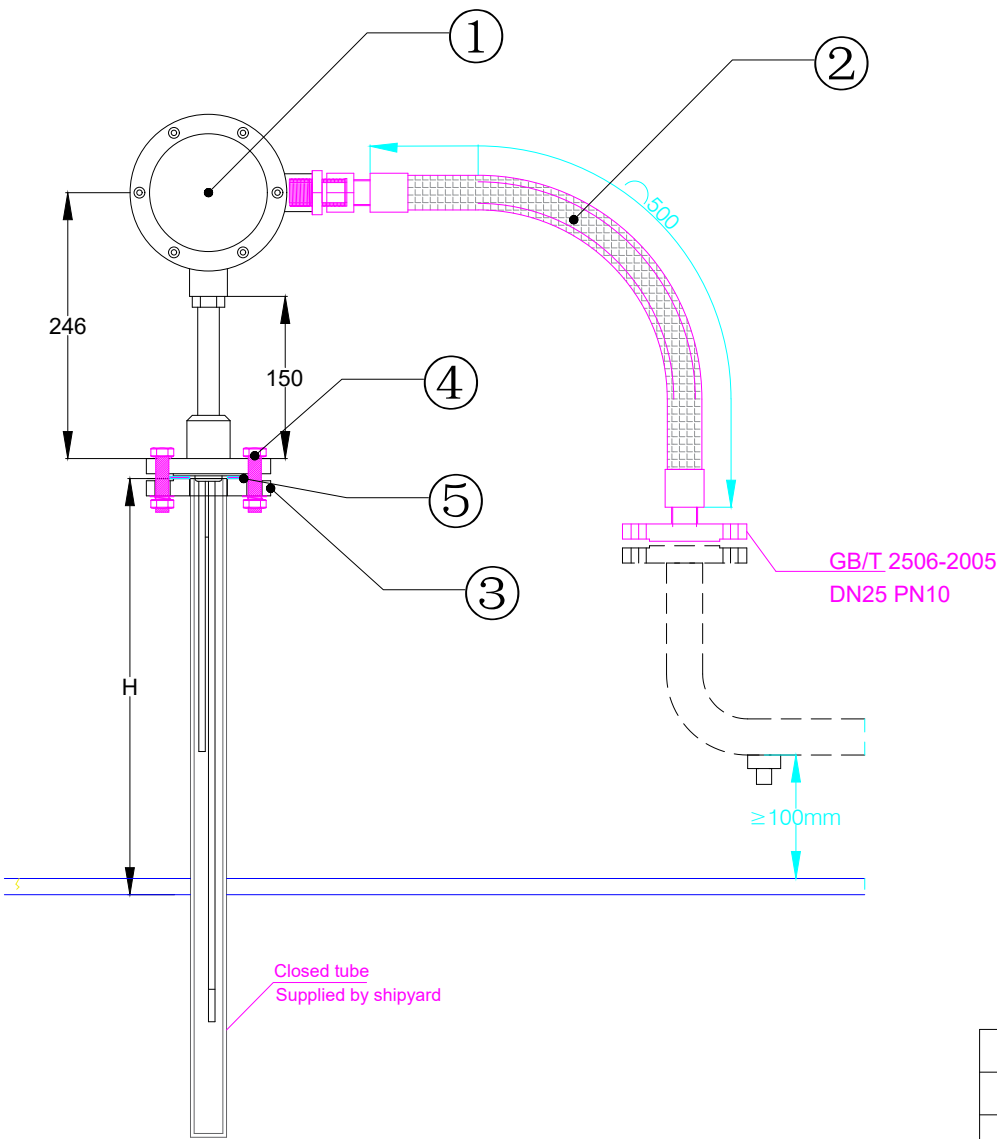
|     |                                       |                                    |          |                                                              |
|-----|---------------------------------------|------------------------------------|----------|--------------------------------------------------------------|
| ④   | Threaded welding Joint                | G1/2"(F)                           | SS316L   | -                                                            |
| ③   | Thread Type thermal protective sleeve | M20X1.5(Female)-G1/2"(Male):φ14mm  | SS316L   | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ②   | Cable Gland                           | M20X1.5 (6~12mm Cable)             | SS316L   | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ①   | Temperature Sensor&Transmitter        | WZPBS:4~20mA Output with Display   | -        | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
|     |                                       | WZPB:4~20mA Output without Display | -        | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
|     |                                       | WZPK:PT100 Output                  | -        | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| No. | Items                                 | Description                        | Material | Supplier                                                     |

|      |        |       |       |           |                                                                                                                                                 |            |                                                       |
|------|--------|-------|-------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------------------------------------|
|      |        |       |       |           | <br><small>YOUR SHIP'S GUARDIAN IN THE DIGITAL AGE</small> | TYPE       | TITLE <b>Scope of Supply and Installation Diagram</b> |
| V1.0 | Luna   | Rex   | Bob   | 2025/8/12 |                                                                                                                                                 |            |                                                       |
| Ver. | Design | Check | Appr. | Date      |                                                                                                                                                 | <b>WZP</b> | DRAWING NO.: <b>TEMP-WZP-MT</b>                       |



Note: The nameplate information provided is for illustration purposes only. It is intended to show the categories of product information that the nameplate will contain. The actual specific parameters of the sensor will be indicated according to the actual selection.

|      |        |       |       |           |                                                                                                                                                                                 |      |                                     |   |  |   |  |   |  |   |  |
|------|--------|-------|-------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------|---|--|---|--|---|--|---|--|
|      |        |       |       |           |  <div>ASI   AQUASYNC<br/>INNOVATION</div> <div>YOUR SHIP'S GUARDIAN IN THE DIGITAL AGE</div> |      |                                     |   |  |   |  |   |  |   |  |
| V1.0 | Luna   | Rex   | Bob   | 2025/8/12 |                                                                                                                                                                                 | TYPE | TITLE Mutipoints Temperature Sensor |   |  |   |  |   |  |   |  |
| Ver. | Design | Check | Appr. | Date      |                                                                                                                                                                                 | WZPD | DRAWING NO.: TS-WZPD-DS             |   |  |   |  |   |  |   |  |
| 1    |        | 2     |       | 3         |                                                                                                                                                                                 | 4    |                                     | 5 |  | 6 |  | 7 |  | 8 |  |



NOTE:

- 1、The flange type measuring tube should be in a sealed form, and the inside of the tube should be water tightly isolated from the tank. If necessary, a tightness test should be conducted;
- 2、When installing flange type measuring pipes, if the length exceeds 1m, pipe clamps should be added in the middle and top of the pipe section as appropriate for fixing, to prevent the measuring pipe from shaking and causing damage;

|     |                                |                                      |          |                                                              |
|-----|--------------------------------|--------------------------------------|----------|--------------------------------------------------------------|
| ⑤   | Gasket                         | PTFE; DN25 PN10                      | PTFE     | -                                                            |
| ④   | Bolts                          | M12-50                               | SS316L   | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ③   | Connection Flange              | GB/T 2506-2005 DN25 PN10             | SS316L   | -                                                            |
| ②   | Metal threading hose for cable | M30X1.5 (10~16mm Cable)              | SS316L   | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| ①   | Temperature Sensor&Transmitter | WZPD (Mutipoints Temperature Sensor) | SS316L   | <input type="checkbox"/> ASI <input type="checkbox"/> Others |
| No. | Items                          | Description                          | Material | Supplier                                                     |

|      |        |       |       |           |
|------|--------|-------|-------|-----------|
| V1.0 | Luna   | Rex   | Bob   | 2025/8/12 |
| Ver. | Design | Check | Appr. | Date      |



|      |                                          |
|------|------------------------------------------|
| TYPE | TITLE                                    |
| WZPD | Scope of Supply and Installation Diagram |
|      | DRAWING NO.: TEMP-WZPD-MT                |



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