

## Features

- SS-316 enclosure with high corrosion resistance
- IP-68 protection for harsh environments
- RS-485 (MODBUS RTU) communication
- 4–20 mA analog output
- Backlit LCD display
- Easy to install



## Technical Specifications

| Performance Characteristics      |                                             |
|----------------------------------|---------------------------------------------|
| Type of Input                    | pH Electrode                                |
| Output                           | 4 to 20mA                                   |
| Alarm or Relay Output            | 1 Relay Output (Optional)                   |
| Communication Output             | RS-485 MODBUS RTU (Optional)                |
| Display                          | Backlight LCD                               |
| Calibration Range                | pH : 0 to 14 pH                             |
| Calibration Method               | 3 Point buffer                              |
| Temperature Compensation         | RTD PT-100                                  |
| Electronics Transmitter Accuracy | pH : +/- 0.05 pH at 25 °C                   |
| Isolation                        | 1.4 KV between Input, Output & Power Supply |
| Repeatability                    | +/-0.05% of SPAN                            |
| Response Time                    | 1 Sec                                       |
| Electrical Connections           | M12 Connector                               |
| Power Supply                     | 18-36 V DC                                  |
| Power Consumption                | < 5W                                        |
| Electronic Protection Class      | Weather Proof IP-68                         |
| Electronics Enclosure            | SS-316                                      |
| Sensor Connection                | Through BNC connector                       |
| Mounting                         | Pipe Mounting / Wall Mounting               |
| Weight                           | Less than 3 kg                              |
| Ambient Temperature              | -20°C to 75°C                               |
| Ambient Humidity                 | 5 to 95% non-condensing                     |
| Temperature Coefficient          | +/- 0.05% per °C                            |
| Flow Through Assembly (Optional) | SS-316 / PP                                 |

# TS2000-pH

pH TRANSMITTER - SWITCH

## Assembly Overview

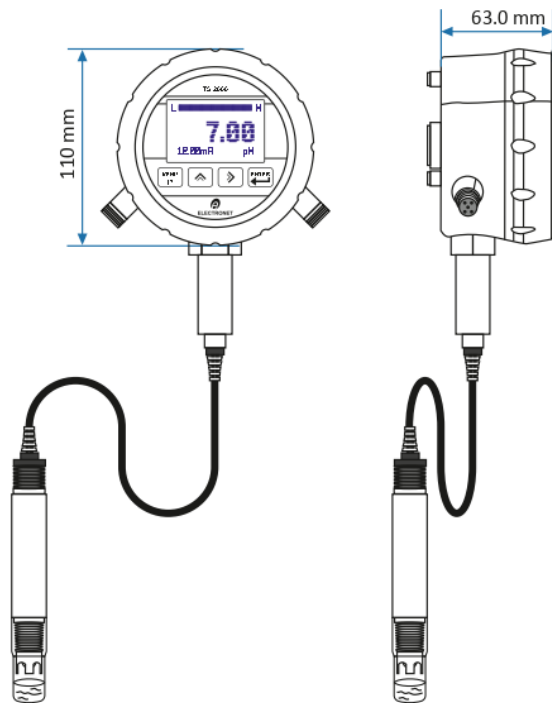


Fig. 1 Front View

Fig. 2 Side View

## Connection Details

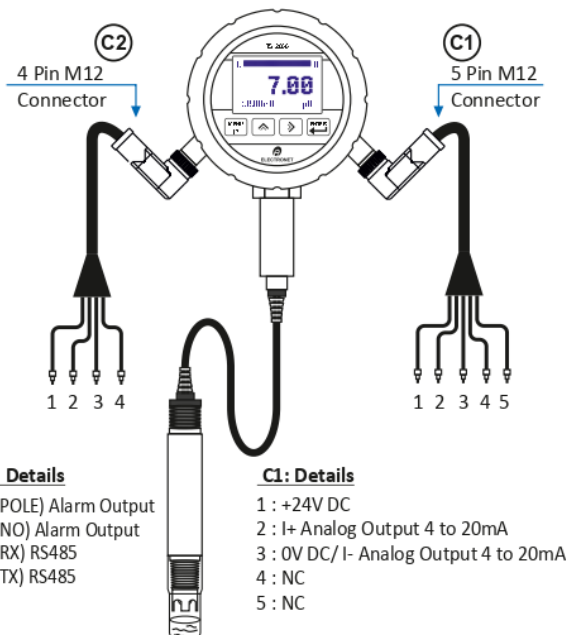


Fig. 3 Front View

## Ordering Information

Sample Order Code : TS 2000 PH/ORP-A1-B1-C1

| Parameter | Code                   | Description           |
|-----------|------------------------|-----------------------|
| A         | Input                  | A1 pH                 |
|           | A2                     | ORP                   |
| B         | Alarm Output           | B1 1 Relay Output     |
|           | BX                     | NA                    |
| C         | Communication Output 1 | C1 RS485 (MODBUS RTU) |
|           | CX                     | NA                    |

Note :

- Due to our continuous product revisions, design specification and model numbers are subject to change without notice.
- Accuracy defined at Lab Conditions.
- For other requirement please consult factory.
- Sensor & other accessories to be ordered separately.
- This product is meant for laboratory/Process application only and not for custody transfer application.

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