

### Features

- On-Line Measurement
- 2 Wire System
- 4-20 mA DC Output / 4-20 mA with HART (Generic)
- Auto / Manual Temperature Compensation
- On-Line Indication through LCD Display
- Simple operating interface with basic Pictographs
- Easy Installation



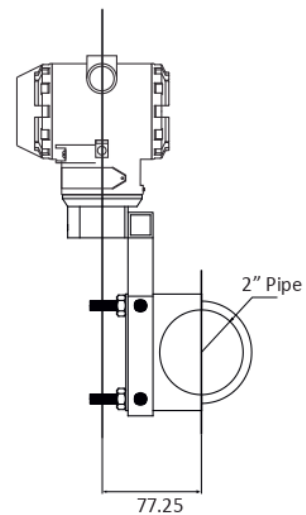
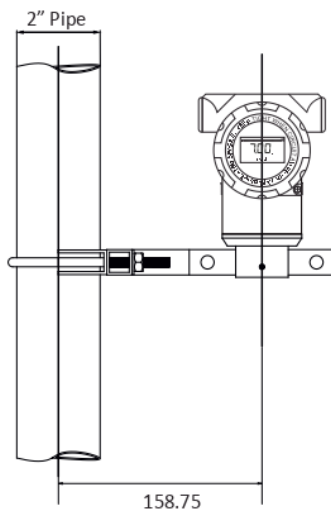
### Description

Electronet series PH-100S are PH / ORP transmitters used for various industrial applications. It can accept input from pH / ORP electrode & pH / ORP signal is transmitted in the form of electrical 4 - 20 mA signal. The on-line pH / ORP indication is provided through LCD. Span / Zero adjustments are easily accessibly. These transmitters are suitable for any make of electrode.

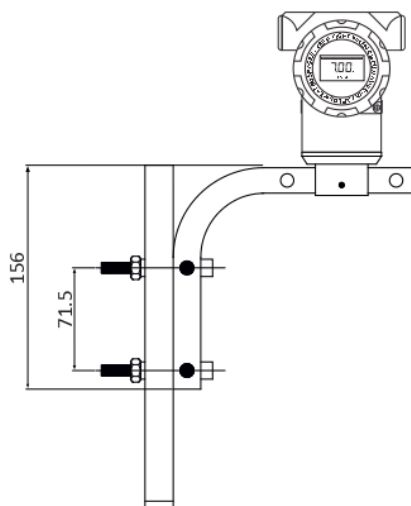
### Technical Specifications

|                                  |                                                             |
|----------------------------------|-------------------------------------------------------------|
| Type of Input                    | From pH / ORP Electrode (Compatible to any make Electrode)  |
| Type of Output                   | 4 - 20 mA, 4 - 20 mA with HART (Generic)                    |
| Display                          | LCD Display                                                 |
| Calibration Range                | pH : 0 to 14 pH, ORP : +/-2000mV                            |
| Calibration Method               | 3 Point buffer                                              |
| Temperature Compensation         | RTD PT-100 / RTD PT-1000                                    |
| Electronics Transmitter Accuracy | pH : +/- 0.05 pH, ORP : +/-3mV                              |
| Isolation                        | 1.4 KV between Input, Output & Power Supply                 |
| Sensor Connection                | 1) Through BNC connector 2) Through Terminals               |
| Power Supply                     | 24V DC Two Wire Loop Powered                                |
| Power Consumption                | < 50 mW                                                     |
| Repeatability                    | +/-0.05% of SPAN, at 25 °C                                  |
| Response Time                    | < 1000 mSec                                                 |
| Temperature Coefficient          | +/- 0.05% per °C                                            |
| Dimensions                       | 155 mm (H) x 105 mm (W) X 130 mm (D)                        |
| Electrical Connections           | 1) M20X1.5 (F) 2) ½" NPT(F)                                 |
| Electronic Protection Class      | Flame Proof CMRI IIA IIB / Weather Proof IP-67              |
| Mounting                         | 2" Pipe Mounting                                            |
| Weight                           | 1 kg (Approximate)                                          |
| Ambient Conditions               | Temperature -20 to 55 °C / Humidity 5 to 95% non condensing |
| Housing                          | Cast aluminum with epoxy coating NEMA 4X / SS316            |
| Flow Through Assembly (Optional) | SS316 / PP                                                  |
| Certification                    | CE                                                          |

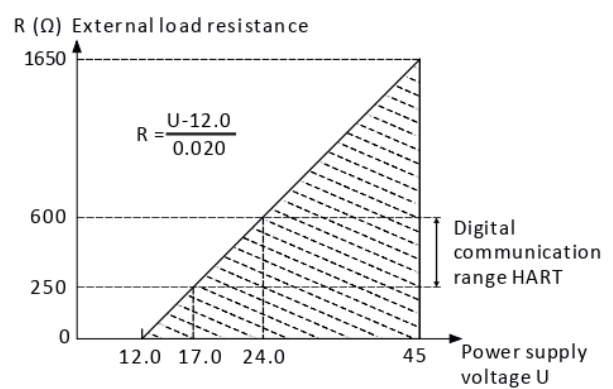
### Pipe Mounting Panel



### Wall mounting Panel



### Power Supply & Load Requirements

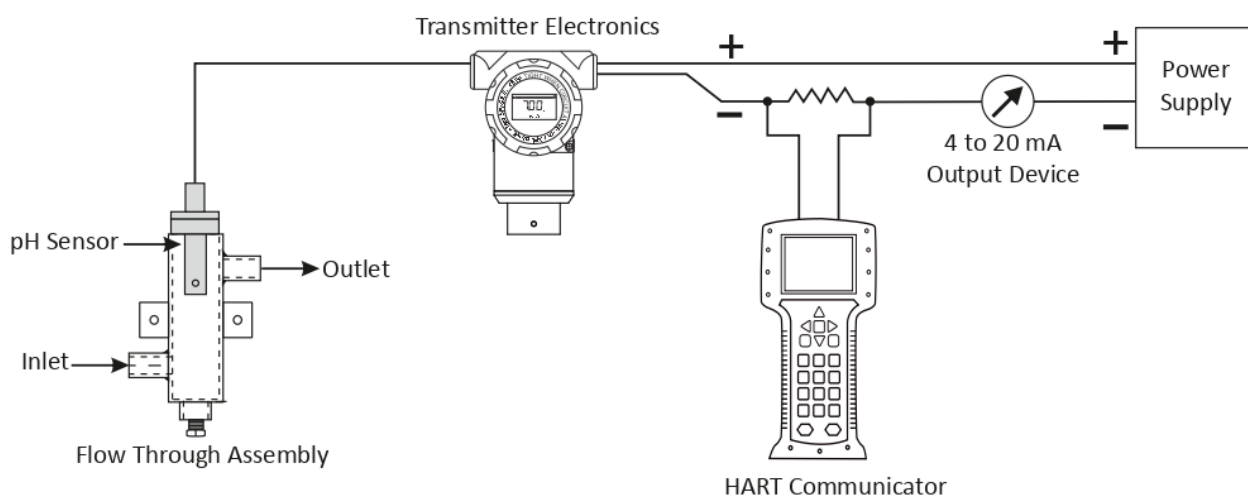


# pH 100S

pH / ORP TRANSMITTER



## Loop Diagram



## Ordering Information

Sample Order Code : PH/ORP 100S-A1-B1-C1-D1-E1-F1-G1

|   | Parameter                        | Code | Description                         |
|---|----------------------------------|------|-------------------------------------|
| A | Mounting Type                    | A1   | Panel Mount (96 X 96)               |
|   |                                  | A2   | Field Mount (2"Pipe Mount)          |
| B | Input                            | B1   | pH                                  |
|   |                                  | B2   | ORP                                 |
| C | Area Classification - Electronic | C1   | Weather Proof IP-54                 |
|   |                                  | C2   | Weather Proof IP-67                 |
|   |                                  | C3   | Flameproof (CMRI IIA IIB Certified) |
| D | MOC Electronics Enclosure        | D1   | Aluminium Die Cast PU Painted       |
|   |                                  | D2   | SS-316                              |

|   | Parameter                | Code | Description                    |
|---|--------------------------|------|--------------------------------|
| E | Electrical Connection    | E1   | M20 X 1.5 (F)                  |
|   |                          | E2   | 1/2" NPT (F)                   |
|   |                          | E3   | M12 Connector                  |
|   |                          | EY   | Other                          |
| F | Temperature Compensation | F1   | RTD PT-100                     |
|   |                          | FY   | Other                          |
|   |                          | FX   | NA                             |
| G | Output 1                 | G1   | 4 to 20 mA                     |
|   |                          | G2   | 4 to 20 mA with HART (Generic) |

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.

## ELECTRONET EQUIPMENTS PVT. LTD.

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