

# TG - 20

## DIGITAL TEMPERATURE GAUGE

### Features

- Local or Remote Sensor
- Display Auto Shut-Off facility
- Battery Operated
- Electronics Protection Class : Weatherproof IP65, IP67
- Unit Conversion Facility
- Handy and Maintenance Free
- Reliable and Cost Effective

### Description

**E**lectronet series TG-20 are digital temperature gauges for fast, easy & trouble free operation. These can be cost effective & ideal for monitoring the temperature. Display shut-off facility is provided so that display can be made 'ON' only if required through push button. Thus it saves the battery power & results in long lasting battery operation.



### Technical Specifications

|                                     |   |   |
|-------------------------------------|---|---|
| Type of Input                       | 1) RTD<br>3) Resistance   | 2) Thermocouple (J & K)<br>4) millivolt (0 to 100 mV) |
| Sensor Type                         | 1) RTD PT-100, PT-200<br>2) Thermocouple (J & K)  |   |
| Temperature Sensor Immersion Length | 100 mm, 300 mm, 500 mm  |   |
| Range                               | As per Input selection  |   |
| Display                             | LCD Display   |   |
| Accuracy                            | +/- 0.25% of F.S for TC Input<br>+/- 0.1% of F.S for RTD Input  |   |
| Process Pressure                    | 100 Bar max   |   |
| Display Lock                        | Display can be made ON by pressing push button on Front Fascia<br>Display remain ON for 20 sec & then it will get OFF |   |
| Power Supply                        | Battery Operated  |   |
| Battery Life                        | With Backlight : 1500 hrs & Without Backlight : 2000 hrs continuous operation   |   |
| Response Time                       | < 500 mSec  |   |
| Temperature Coefficient             | +/- 0.01% per °C  |   |
| Enclosure                           | SS316 / Die Cast Aluminium  |   |
| Electronics Protection Class        | Field Mount Weather Proof IP65  |   |
| Dimensions                          | 100 mm (Diameter) x 80 mm (Depth)   |   |
| Mounting                            | 2 Inch Pipe Mount, Direct Line Mount  |   |
| Process Connection                  | ½" BSP (M) Standard / (other on request)  |   |
| Weight                              | 1 Kg  |   |
| Ambient Conditions                  | Temperature -20 to 55°C / Humidity 5 to 95% non condensing  |   |
| Certification                       | <b>CE</b>   |   |

Dimensional Details

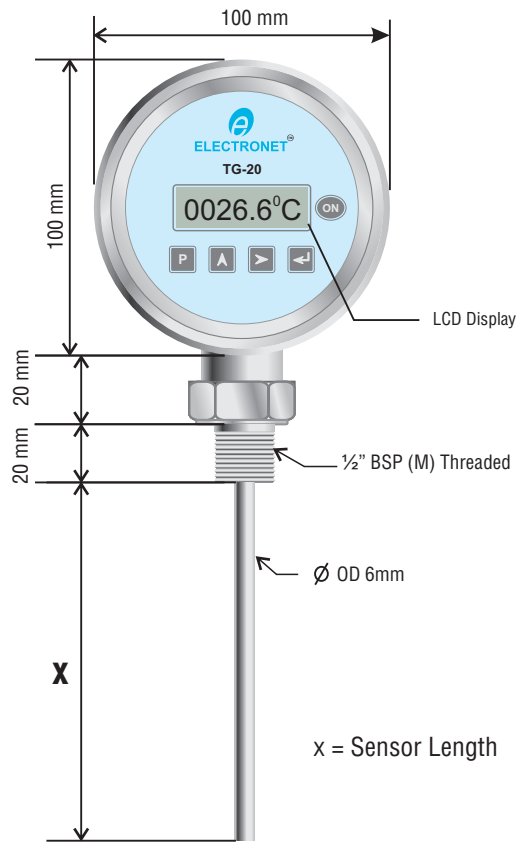


Fig 1 Front View

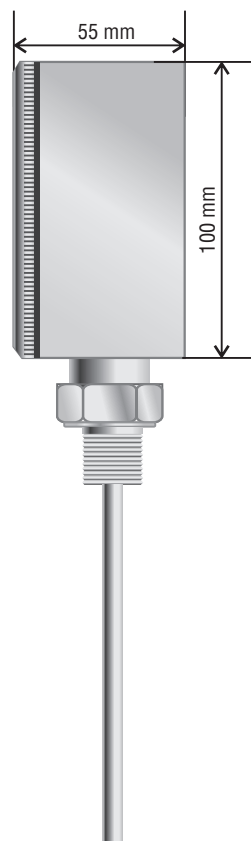


Fig. 2 Side View

## Ordering Information

Sample Order Code : 

|      |    |    |    |    |    |    |    |    |    |    |    |    |
|------|----|----|----|----|----|----|----|----|----|----|----|----|
| TX 3 | A2 | B1 | D1 | E2 | G1 | H1 | J2 | K1 | L4 | M2 | N2 | O1 |
|------|----|----|----|----|----|----|----|----|----|----|----|----|

| Parameter | Code                       | Description | Parameter               | Code | Description                         |        |                    |
|-----------|----------------------------|-------------|-------------------------|------|-------------------------------------|--------|--------------------|
| TX        | Transmitter Mounting Type  | TX 3        | 2 Inch Pipe Mount       | J    | Communication Output 1 (Any one)    | J1     | RS485 (MODBUS RTU) |
|           |                            | TX 4        | Direct Line Mount       |      | J2                                  | RS232  |                    |
| A         | Type of Input              | A1          | RTD                     | K    | Communication Output 2 (Any one)    | K1     | GSM                |
|           |                            | A2          | Thermocouple            |      |                                     | K2     | GPRS               |
|           |                            | A3          | Resistance              | L    | Temperature Sensor Immersion Length | L1     | 100 mm             |
|           |                            | A4          | millivolt (0 to 100 mV) |      |                                     | L2     | 300 mm             |
| B         | Type of Input Sensor 1     | B1          | RTD PT-100              | L3   |                                     | 500 mm |                    |
|           |                            | B2          | RTD PT-200              | LY   |                                     | Other  |                    |
|           |                            | B5          | Thermocouple J Type     | LX   | NA                                  |        |                    |
|           |                            | B6          | Thermocouple K Type     | M    | Temperature Sensor Diameter         | M1     | 6 mm               |
|           |                            | BX          | NA                      |      |                                     | M2     | 12 mm              |
| D         | Electronics                | D1          | Integral (Local)        | MY   |                                     | Other  |                    |
|           |                            | D2          | Remote                  | MX   |                                     | NA     |                    |
| E         | Sensor Remote Cable Length | E1          | 5 Meter                 | N    | Process Connection                  | N1     | ¼" NPT (M)         |
|           |                            | E2          | 10 Meter                |      |                                     | N2     | ½" NPT (M)         |
|           |                            | E3          | 15 Meter                |      |                                     | N3     | ¼" BSP (M)         |
|           |                            | E4          | 25 Meter                |      |                                     | N4     | ½" BSP (M)         |
|           |                            | EX          | NA                      |      |                                     | N5     | 1" ASA 150 FLANGE  |
| G         | MOC Electronics Enclosure  | G1          | Die Cast Aluminium      |      |                                     | NY     | Other              |
|           |                            | G2          | SS316                   |      |                                     | NX     | NA                 |
| H         | Electrical Connection      | H1          | M 20 x 1.5 (F)          | O    | Sensor & Process Fitting MOC        | O1     | SS316              |
|           |                            | H2          | ½" NPT (F)              |      |                                     | O2     | Hastelloy C        |
|           |                            | H3          | DIN 43650 Connector     |      |                                     | OY     | Other              |

**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.

## ELECTRONET EQUIPMENTS PVT. LTD.

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