

LOOP POWERED TEMPERATURE TRANSMITTER-L.C.D/L.E.D



L.C.D Display

TMP - 107 - WP
WEATHERPROOF



L.E.D Display



L.C.D Display

TMP - 107 - FLP
FLAMEPROOF



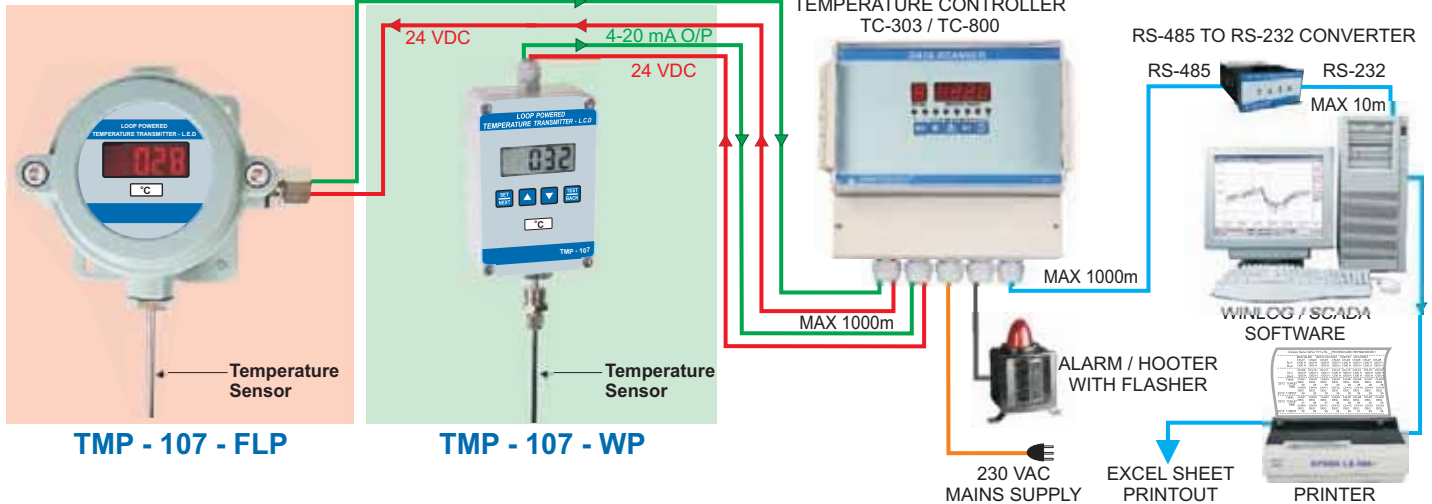
L.E.D Display

ILLUSTRATION

Hazardous Area

Safe Area

Safe Area / Control Room



FEATURES

- Highly Reliable, Fast, Accurate Sensing Technology
- User Friendly, Simple To Operate & Easy To Install
- Power On Startup Through Intelligent Electronics, Self Driven Menu
- Easy-to-read Display, Fast Response
- Easy Programming With Password Protection
- Software Calibration- No Trimpots
- Loop Test, Assures Proper Operation Of The Transmitter
- Industrial Standard, 4 - 20 mA O/P With Respect To The Full Scale Of Input Type
- Built-In Reverse Polarity Protection
- Reduced Operating Maintenance And Installation Cost
- Excellent Long Term Stability

APPLICATIONS

- Oven & BOD, Incubator, Humidity Chamber
- Winding Temperature Of Generators, Bearings, Motors & Transformers
- Foundries For Heat Treatment Application
- Chemical & Hazardous Area Where Data Monitoring is Essential
- Iron & Steel Industry For Soaking Pits, Oxygen Plate, Smelter Plant
- Cement Plants For Process Automation
- Water Purification & Treatment Plants
- Primary & Auxiliary Temperature Scanning Of Boilers
- Sugar Industry For Pan Alternation, Dailer Automation
- Paper & Pulp Industry For Washers, Head Box Feed, Bleachers Etc.
- Chemical & Petrochemical Industries
- Water Pumping Stations
- Power Plants

MUST FOR YOUR PROCESS

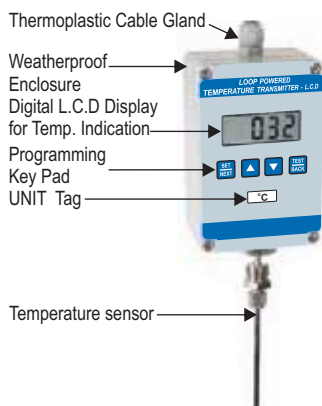
TECHNICAL SPECIFICATIONS

Input	J - Type (Fe-CON)	K - Type (Cr-AL)	RTD (PT-100)
Range	0 To 750 °C	0 To 1200 °C	- 100 To 500 °C
Resolution	1°C	1°C	1°C
Accuracy	± 0.25% of Full Scale	± 0.25% of Full Scale	± 0.25% of Full Scale
Compensation	Automatic Cold Junction Compensation for Thermocouple (J or K type) Specify cable length while ordering		
Sensor Probe details	Please specify while inquiring		
Loop Output	Industrial standard, 4 - 20 mA with permissible load 750 ohms at 24 VDC, 25mA		
Display	0.5", 3½ digit L.C.D Display / 0.4", 4 Digit L.E.D Display		
Set Point	Two Independent set points, AL1 & AL2 with blinking indication & programmable Latch / Non-Latch facility, only for indication purpose (There is no relay output)		
Setting	Setting by 4 keys on front panel i.e. 'SET / NEXT', 'UP', 'DOWN' & 'TEST / BACK'		
Monitoring : Sensor Open / Under / Over	i) By Display : Sensor 'Open/Break' shows 'oPn', 'Under' range shows 'Und' & 'Over' range shows 'our' ii) By Loop current : Up scale current : 22 mA, Down scale current : 3.6 mA to 3.8 mA; programmable by user		
Supply Voltage	14 To 36 VDC, normally 24 VDC, 25 mA		
Operating Temperature	- 40 To 85 °C		
Relative Humidity	Below 95% non condensing		
Enclosure Detail	WEATHERPROOF (WP)	FLAMEPROOF (FLP)	
Protection Class	IP - 65	IP-65, CMRI approved for IIA & IIB Gas Group	
Cabinet Material	Polycarbonate , Grey colour	Cast Alluminium alloy, LM-6 / C.I. Enclosure	
Cable Entry	1 No, Thermoplastic cable gland (IP - 68)	1 No, Double compression cable gland (Ex - proof), ¾" ET - type	
Dimension	120 mm (H) X 80 mm (W) X 55 mm (D)	145 mm (H) X 185 mm (W) X 100 mm (D)	
Mounting	Wall Mounting / Stand Mounting	Wall Mounting / Stand Mounting	
Weight	250 Grams	1Kg	

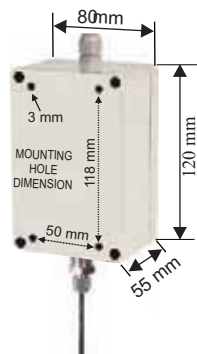
DIMENSIONS

WEATHERPROOF ENCLOSURE

FRONT VIEW

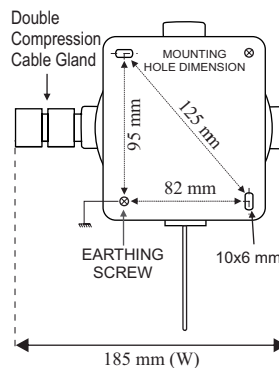


SIDE & BACK VIEW

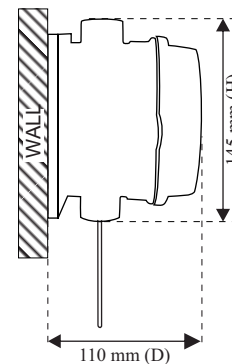


FLAMEPROOF ENCLOSURE

BACK VIEW



SIDE VIEW



Programming Key Pad Available inside the Flameproof Enclosure

ORDERING INFORMATION

TMP - 107 — **A** — **B** — **C** — **D**

A) Enclosure 1) Weatherproof (WP) 2) Flameproof (FLP)	B) Display 1) L.C.D 2) L.E.D	C) Input & Range 1) J - Type Thermocouple (0 - 750 °C) 2) K - Type Thermocouple (0 - 1200 °C) 3) RTD (PT-100) (-100 - 500 °C)	D) Sensor Length 1) 4" 2) 6" 3) Specify while ordering 4) Duct Mounting
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NOTE : For any customize requirement contact factory

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