

TMP-215-FLP

Loop Powered Temperature Transmitter



AMBETRONICS
AN ISO 9001:2015 CERTIFIED COMPANY

MODEL NO.: TMP-215 (LED DISPLAY)



PANEL MOUNT (PM)



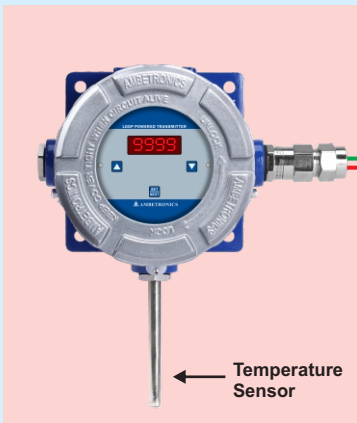
Weatherproof



Flameproof

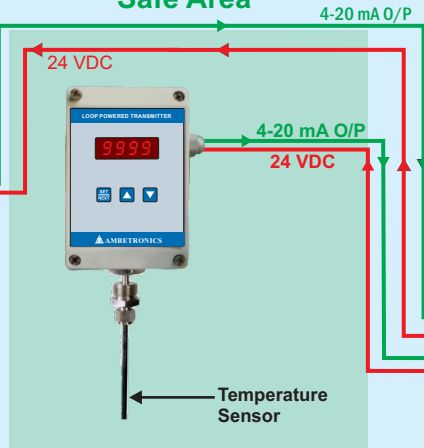
Illustration

Hazardous Area



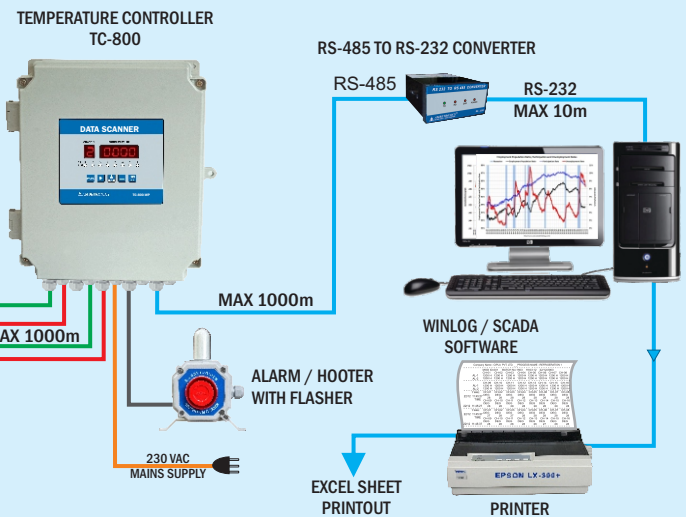
TMP - 215 - FLP

Safe Area



TMP - 215 - WP

Safe Area / Control Room



Features

- Highly Reliable, Fast, Accurate Sensing Technology
- Universal type Input : RTD, J, K, R, S
- 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 with password change facility for user and calibration mode.
- Software Calibration- No Trimpots
- 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
- Non-Intrusive programming for Flameproof model using Magnetic Pen

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 HUMAN & INDUSTRIAL SAFETY

TECHNICAL SPECIFICATIONS

General

Input	Ranger	Resolution	Accuracy
RTD (PT-100)	(-99.9 To 400.0°C)	0.1°C	±0.25% of Full Scale
J-Type	0 To 750°C	1°C	±0.5% of Full Scale
K-Type	0 To 1200°C	1°C	±0.5% of Full Scale
R-Type	0 To 1750°C	1°C	±0.5% of Full Scale
S-Type	0 To 1750°C	1°C	±0.5% of Full Scale

- Compensation : Automatic Cold Junction Compensation for Thermocouple (J, K, R & S type); Specify cable length while order.
- Sensor Probe details : Please specify while ordering.
- Loop Output : Industrial standard, 4-20mA with permissible load 750 ohms at 24VDC, 25mA.
- Setting : Setting by 3 keys on front panel i.e 'SET/NEXT', '▲' & '▼' for Panel Mount & Weatherproof Model. by using Magnetic Pen (only for Flameproof Model)

Electrical

Supply Voltage : 14 To 36 VDC, normally 24VDC, 25mA

Environmental

Operating Temperature : -40 To 85°C
Humidity : Below 95% non condensing

Error Monitoring

- Display: Sensor 'Open/Break' shows 'oPEr', Under range shows 'Undr' & Over range shows 'oUr'
- Loop Current: Up scale current: 21 mA, Down Scale current : 3.7 mA, Scale is programmable.

Weatherproof Housing

Degree of Protection Class : IP65
Housing Material : Polycarbonate, Grey Colour
Cable Entry : 1 No, Thermoplastic Cable Gland (IP-68)
Dimension : 120(H) x 100(W) x 55(D)
Mounting : Wall Mounting / Stand Mounting
Weight : Approx 250 grms

Panel Mount Housing

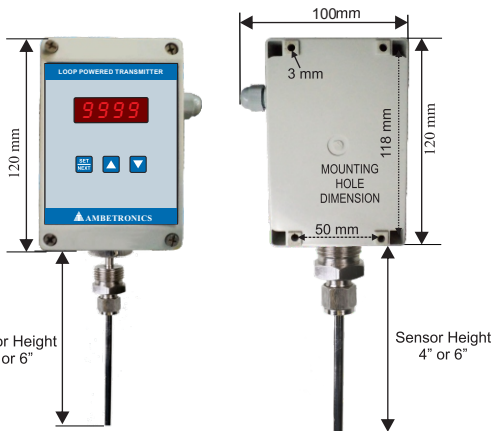
Degree of Protection Class : IP40
Housing Material : ABS Plastic, Black colour
Cable Entry : Terminal connector for connection
Dimension : 96(H)x 96(W) x 85(D)
Mounting : Panel Mounting
Weight : Approx 250 grms

Flameproof Housing

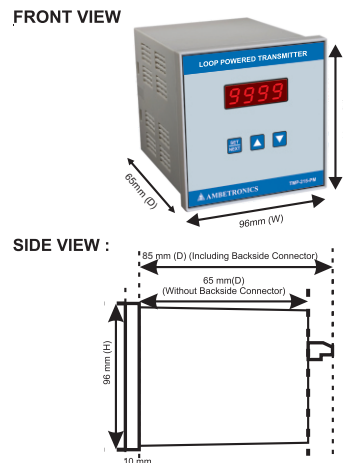
Degree of Protection Class : IP66 /IP68
• CIMFR CERTIFICATE NO. : IN/CIMFR/TR21/S/977 Dt. : 06/07/2021
• PESO CERTIFICATE NO. : P538850/6 Dt. : 16/06/2022
Housing Material : Cast Aluminium LM6 alloy or Stainless Steel
Cable Entry : Flameproof, Weatherproof IP66 Double Compression Cable Gland - Model No.: CG/FLP/2C M20 x 1.5 (P) & M25 x 1.5(P), ½" NPT & ¾" NPT
• CIMFR CERTIFICATE NO. : IN/CIMFR/TR21/R/2147 Dt. : 12/10/2021
• PESO CERTIFICATE NO. : P538850/7 Dt. : 16/06/2022
Dimension : 145(H)x185(W) x100(D)
Mounting : Wall Mounting / Stand Mounting
Weight : Approx 1Kg

DIMENSIONS

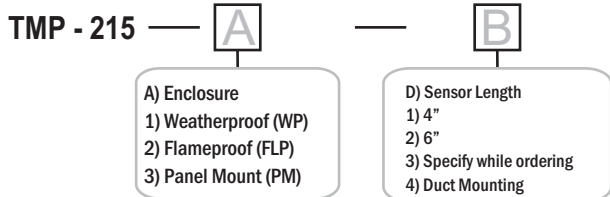
WEATHERPROOF MODEL (WP) FRONT VIEW SIDE & BACK VIEW



Panel Mount (PM):



ORDERING INFORMATION



NOTE : For any customize requirement contact factory

Manufactured by :



AMBETRONICS ENGINEERS PVT. LTD.

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