



TEMPERATURE TRANSDUCER

TX-215





SPECIFICATIONS

Model ASHE TX-215.

Type Temperature Isolating Transducer.

Principle Optical Isolation and Signal Conditioning. **Input Sensor** Thermocouple.

Thermocouple type J, K, R, S [to be specified].
Output Signal 4 to 20 mA DC [or as required].

Load Driving Capacity 600 Ohms. **Range** To be specified.

IsolationBetween Input // Output // Power Supply.Isolation typeOptical and Galvanic.

Isolation level

Output protection

Calibration facility

1.5 kV rms for one minute.

Short / Open Circuit protection.

Zero and Span settings [external].

Accuracy 0.1%.
Indication Red LED for Power On.

Power Supply 85 to 270 V AC, 50/60 Hz Universal AC power. [Optionally 20 to 70 V DC].

Dimensions 100 x 22 x 110 mm.

 $[H \times W \times D].$

Execution DIN-Rail / Rear panel mounting.

Enclosure Industrial Grade ABS
Enclosure colour Opaline Green

Weight Approximately 0.4 Kgs.

Operating Temperature 0 to 50°C.

OVERVIEW

The ASHE TX series of Signal Conditioners, Isolators, Transducers and Transmitters comprise a wide range of high quality and reliable instruments for the conversion, amplification and isolation of analog and digital signals.

The instruments accept standard industrial process input signals such as DC/AC Voltage, DC/AC Current, 4 to 20 mA DC, RTD Pt-100 sensor, Thermocouple sensor, Frequency [Pulse], Resistance, Strain-gauge, etc. and provide a buffered and isolated output with enhanced load driving capacity. The instruments find wide usage in single loop or distributed process measurement and control applications.

The new Series TX-215 Temperature Isolating Transducers measure the signal from a Thermocouple sensor [Type J,K,R,S] and convert the signal into an isolated analog current loop signal of 4 to 20 mADC [or as required]. The Output signal is galvanically and optically isolated to a potential level of 1.5 KV rms for one minute.

The instruments operate on 85 to 270 V Universal AC power supply, or alternatively 20 to 70 VDC power supply. Optional features include Signal repeating [multiple isolated outputs], higher load driving capability, digital indication facility, control relay outputs, two-wire operation with auxillary power output, etc.

The instruments are available in compact industrial grade enclosures in DIN Rail / Wall-mounting execution, or optionally in IP65 protected field mount weather-proof enclosures, or in CIMFR certified explosion-proof enclosures. Absence of any moving parts provides these instruments inherent advantages like immunity to mechanical shocks, dust, ambient temperature, humidity and corrosive atmosphere.

FEATURES

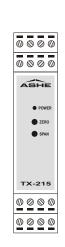
- Optical & Galvanic Isolation between Input,
 - Output & Power Supply.
- High accuracy to input signal
- Very low power consumption and heat dissipation
- Options of multiple [upto four] isolated outputs
- High load driving capacity of retransmitted signal
- Configurable output option of current / voltage
- Short-circuit / Open-circuit protection of outputs
- Front accessible Zero and Span calibration for all channels
- Cold Junction compensation provided
- AC or DC Power Supply options
- Rugged, industrial grade ABS enclosure
- Panel / Field / Hazardous area installation in IP65 execution
- Current limiting for I/O protection
- Customized outputs offered
- Proven record of several thousand installations
- Lifetime warranty on design and workmanship

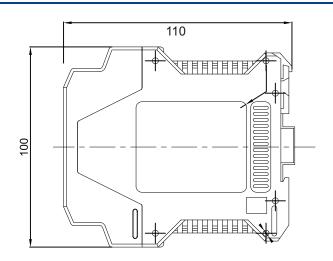
TEMPERATURE TRANSDUCER



DIMENSIONAL DIAGRAM

Dimensions: 100 x 22 x 110 mm Execution: DIN Rail mount.





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TX-215

HOW TO ORDER

TEMPERATURE TRANSDUCER

Input (pre-specified): Thermocouple type J,K,R,S

Output: 4 to 20 mA DC.

Isolation: Optical and Galvanic.

Power Supply: 85 to 270 V AC, 50/60 Hz or 20 to 70 VDC

Dimensions: 100 x 22 x 110 mm. Execution: DIN rail mounted.

Configuration and Add-on options

- 1 OPTICAL AND GALVANIC ISOLATION
- Required
- Not Required

2 POWER SUPPLY

- ▶ 85 to 270 V AC, 50/60 Hz
- ▶ 20 to 70 VDC
- Other (to be specified)

3 EXECUTION

- ▶ DIN Rail mounting [100 x 22 x 110 mm]
- Field mounting in Weather-proof execution (Polycarbonate enclosure, IP65 protection)
- ► Field mounting in Flame/Explosion-proof execution (Cast Aluminum Alloy LM6 enclosure, for Gas groups IIA, IIB)

OUR OTHER PRODUCTS











FLOW TOTALIZER

SIGNAL ISOLATORS & TRANSDUCERS

TEMP. SCANNER

FLAMEPROOF INSTRUMENTS

STATIC POWER SWITCHES

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ASHE CONTROLS PRIVATE LIMITED