



TEMPERATURE TRANSDUCER

TX-210





SPECIFICATIONS

Linearity

Range

Model ASHE TX-210.

Type Temperature Isolating Transducer.

Principle Optical Isolation and Signal Conditioning.

Input Sensor RTD Pt-100 [three-wire].

Output Signal 4 to 20 mA DC Load Driving Capacity 600 Ohms.

± 0.15%.

To be specified.

Isolation Between Input // Output // Power Supply.

Isolation typeOptical and Galvanic.Isolation level1.5 kV rms for one minute.Output protectionShort / Open Circuit protection.Calibration facilityZero and Span settings [external].

Accuracy ± 0.1%.

Indication Red LED for Power On.

Power Supply 90 to 270 V AC, 50 Hz
[Optionally 20 to 70 V DC].

Dimensions 100 x 22 x 110 mm.

[H x W x D].

ExecutionDIN-Rail mounting.EnclosureIndustrial grade ABS.Enclosure colourOpaline Green

Weight Approximately 0.3 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-210 Temperature Isolating Transducers measure the signal from an RTD Pt-100 [three-wire] temperature sensor and convert the signal into an isolated analog current loop signal of 4 to 20 mADC [or as required]. The Output signal is linear with respect to the Input signal and 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 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 and linearity 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 outputs
- Digital Indication option with/without control relay outputs
- Auxillary power for two-wire transmitters
- 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

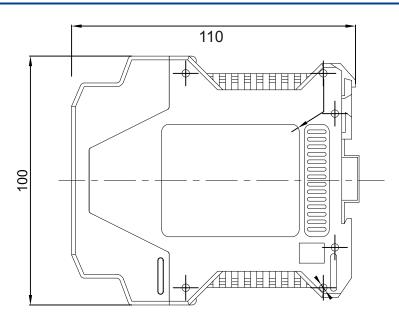
TEMPERATURE TRANSDUCER



DIMENSIONAL DIAGRAM

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





HOW TO ORDER TEMPERATURE TRANSDUCER TX-210 Input (pre-specified): RTD Pt-100 (three-wire). 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. **Configuration and Add-on options OPTICAL AND GALVANIC ISOLATION** Required Not Required Ν **POWER SUPPLY** 85 to 270 V AC, 50/60 Hz S 20 to 70 VDC D Ζ Other (to be specified) **EXECUTION** 3 DIN Rail mounting [100 x 22 x 110 mm] Ν Field mounting in Weather-proof execution W

OUR OTHER PRODUCTS





(Polycarbonate enclosure, IP65 protection)
Field mounting in Flame/Explosion-proof execution

(Cast Aluminum Alloy LM6 enclosure, for Gas groups IIA, IIB)







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FLOW TOTALIZER SIGNAL ISOLATORS & TRANSDUCERS

TEMP. SCANNER

FLAMEPROOF INSTRUMENTS

STATIC POWER SWITCHES



ASHE CONTROLS PRIVATE LIMITED