



TX-210 Temperature Transducer

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 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 mA DC [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 90 to 270 V, 50/60 Hz 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, data communication etc.

The instruments are available in compact industrial grade enclosures in DIN Rail execution, or optionally in IP66 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.







SPECIFICATIONS

Model ASHE TX-210.

Type Temperature Isolating Transducer.

Principle Optical Isolation and Signal Conditioning.

Input Signal RTD Pt-100 [three-wire] sensor.

Output Signal 4 to 20 mA DC

Load Driving Capacity

Linearity

4 to 20 mA DC
600 Ohms.

± 0.15%.

Range To be specified.

Isolation Between Input // Output // Power Supply.

Isolation Type Optical and Galvanic.
Isolation Level 1.5 kV rms for one minute.
Output Protection Short / Open Circuit protection.
Calibration Facility Zero and Span settings [external].

Accuracy $\pm 0.1\%$.

Indication Red LED for Power On.

Power Supply 90 to 270 V AC, 50/60 Hz, Universal Power

Supply (Optionally 20 to 70 V DC).

Dimensions 100 x 22 x 110 mm.

[H x W x D].

Execution DIN-Rail mounting. **Weight** Approximately 0.3 Kgs.

Operating Temperature 0 to 55°C.

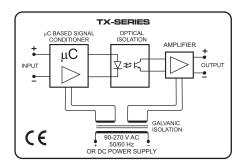
FEATURES

- 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
- AC or DC Power Supply options
- Rugged, industrial grade ABS enclosure
- Panel / Field / Hazardous area installation in IP66 execution
- Current limiting for I/O protection
- Customized outputs offered
- Proven record of several thousand installations

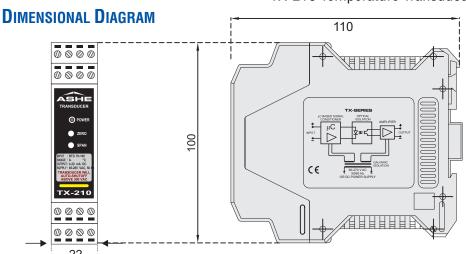


TX-210 Temperature Transducer

BLOCK DIAGRAM



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



How To Order

	TEMPERATURE TRANSDUCER	TX-210				
	Configuration and add-on options					
l	OPTICAL AND GALVANIC ISOLATION					
•	Isolation Required		Υ			
•	Isolation Not Required		N			
)	POWER SUPPLY					
•	90 to 270 V AC, 50/60 Hz			Α		
•	20 to 70 VDC			D		
}	OUTPUT SIGNAL					
•	4 TO 20 mA DC				G	
•	0 to 10 VDC				0	
ļ	EXECUTION					
•	DIN Rail mounting					D
•	Field mounting in Weather-proof execution					W
	(Polycarbonate enclosure, Ingress protection)					
•	Field mounting in Flame/Ex-d execution					Χ

OUR OTHER PRODUCTS











FLOW TOTALIZER SIGNAL ISOLATORS & TRANSDUCERS

TEMPERATURE SCANNER

FLAMEPROOF INSTRUMENTS

STATIC POWER SWITCHES



Designed and Manufactured by :

ASHE CONTROLS PRIVATE LIMITED

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