ASHE CONTROLS PVT LTD
an ISO 9001:2015 certified company

TX-215

TX-Series Temperature Transducer



RoHS Compliant

MAKE IN INDIA

Modbus

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, 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 TX Series Transducers are optionally available with RS485 Modbus RTU communication, enabling seamless data transmission of the input process signal in digital format. 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 mA DC (or as required). The Output signal is galvanically and optically isolated to a potential level of 3 kV RMS for one minute. An RS485 signal can also be provided at the terminals for data communication.

The instruments operate on 90 to 270 V, 50/60 Hz Universal AC/DC 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 auxiliary power output, data communication etc.

The instruments are available in compact industrial grade enclosures in DIN Rail / Wall-mounting execution, or optionally in IP66 protected field mount weather-proof enclosures, or in Ex-d 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.

This product is backed by a full two-year warranty, covering all manufacturing defects and workmanship issues under normal operating conditions.

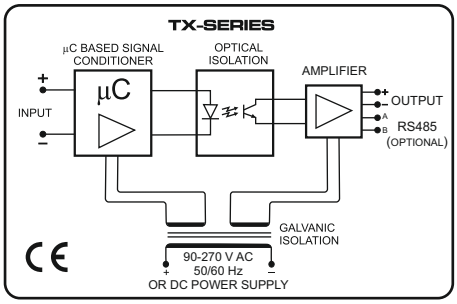
Specifications

Model	ASHE TX-215.
Type	Temperature Isolating Transducer.
Principle	Optical Isolation and Signal Conditioning.
Input Signal	Thermocouple sensor.
Thermocouple type	J, K, R, S [to be specified].
Output Signal	4 to 20 mA DC (or as required).
Load Driving Capacity	600 Ohms.
Communication	RS485 on Modbus RTU communication (optional) to be specified.
Range	To be specified.
Isolation	Between Input // Output // Power Supply.
Isolation Type	Optical and Galvanic.
Isolation Level	3 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 AC/DC power. [Optionally 20 to 70 V DC].
Dimensions	100 x 22 x 110 mm. [H x W x D].
Execution	DIN-Rail / Wall mounting.
Enclosure	Industrial Grade ABS
Weight	Approximately 0.4 Kgs.
Operating Temperature	0 to 55^{0}C.

Features

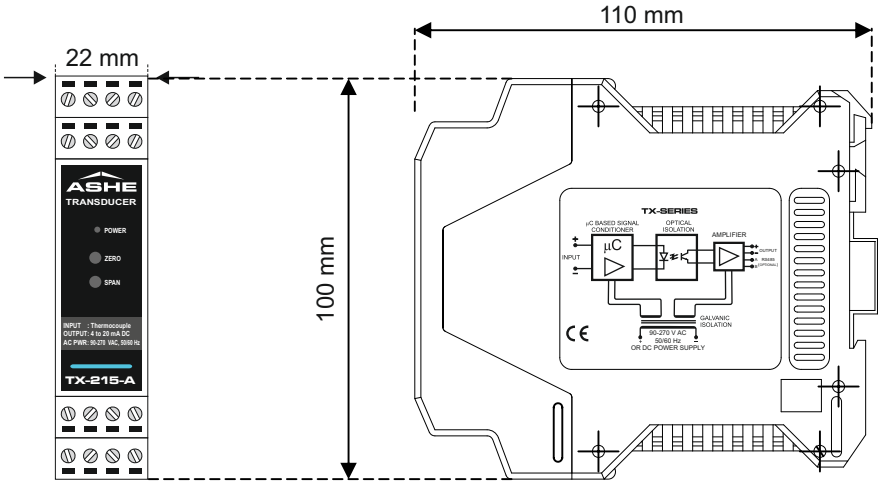
- Optical & Galvanic Isolation between Input, Output & Power Supply
- High accuracy to input signal
- Very low power consumption and heat dissipation
- Options of multiple [upto four] isolated outputs (offered in other enclosure)
- High load driving capacity of retransmitted signal
- RS485 on Modbus RTU output option (to be specified)
- 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 (pre-specified)
- Rugged, industrial grade ABS enclosure
- Panel / Field / Hazardous area installation in IP66 execution
- Current limiting for I/O protection
- Customized outputs offered
- Two-year Performance Warranty
- Proven record of successful site installations

Block Diagram



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

Dimensional Diagram



FRONT VIEW SIDE VIEW

How To Order

SIGNAL ISOLATOR TRANSDUCERS & REPEATERS	TX-215-				
Configuration and add-on options					
1 POWER SUPPLY					
▸ AC/DC Voltage 90 to 270 VAC, 50/60 Hz		A			
▸ DC Voltage 20 to 70 VDC		D			
2 INPUT SIGNAL					
▸ Thermocouple			T		
3 OUTPUT SIGNAL					
▸ DC Current				L	
▸ DC Voltage				V	
4 COMMUNICATION					
▸ RS485 Modbus RTU required					M
▸ RS485 Not required					N

Our Other Products


FLOW TOTALIZER


SIGNAL ISOLATORS & TRANSDUCERS


TEMPERATURE SCANNER


FLAMEPROOF INSTRUMENTS


STATIC POWER SWITCHES

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