

TX-330 Signal Isolating Transducer



OVERVIEW

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

The instruments accept standard industrial process input signals such as 4 to 20 mA DC, 0 to 10 VDC RTD Pt-100 sensor, Thermocouple sensor provides buffered and isolated outputs with enhanced load driving capacity. The instruments find wide usage in single loop or distributed process measurement and control applications.

The new Series TX-330 Signal Isolating Multipliers measure an analog signal and convert the signal into one isolated analog signal of 4 to 20 mA DC [or as required]. The Output signals are linear with respect to the Input signal and output is galvanically and optically isolated to a level of 1.5 kV rms for one minute.

The instruments operate on DC power supply. Optional features include higher load driving capability, digital indication facility, two-wire operation with auxiliary power output etc.

The instruments are available in slim & compact industrial grade enclosures in DIN Rail / Wall-mounting 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.

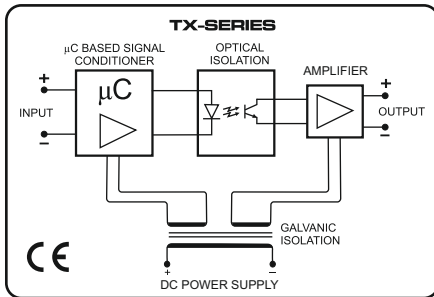
SPECIFICATIONS

Model	ASHE TX-330.
Type	Analog Signal Isolating Transducer
Principle	Optical Isolation, Signal Conditioning and Amplification.
Input Signal	4 to 20 mA DC [or as required].
Output Signal	4 to 20 mA DC [or as required].
Load Driving Capacity	600 Ohms.
Linearity	± 0.1%.
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	± 0.1%.
Indication	Red LED for Power On.
Power Supply	20 to 70 VDC
Dimensions	75 x 22.6 x 107.5 mm. [H x W x D].
Execution	DIN-Rail / Rear panel mounting.
Enclosure	Industrial grade ABS.
Weight	Approximately 0.4 kg.
Operating Temperature	0 to 55°C.

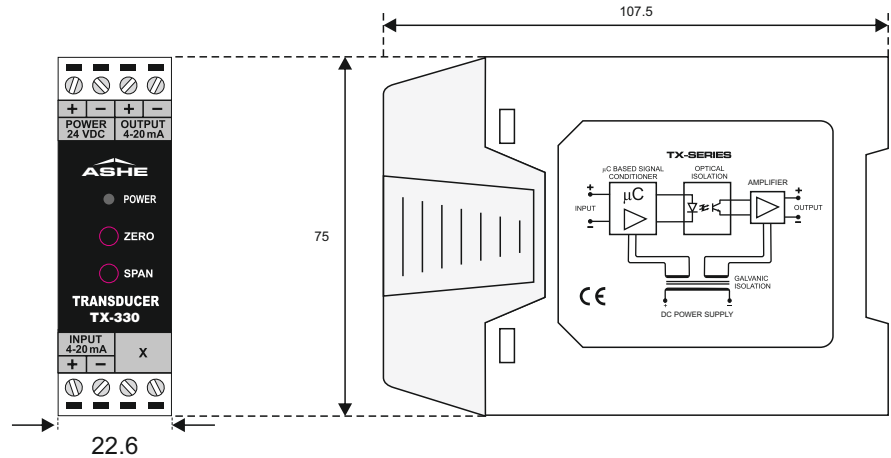
FEATURES

- Optical & Galvanic Isolation between Input, Output & Power Supply
- High accuracy and linearity to input signal
- Very low power consumption and heat dissipation
- High load driving capacity of retransmitted signal
- Output signal options of current / voltage
- Short-circuit / Open-circuit protection of outputs
- Front accessible Zero and Span calibration settings
- Rugged, industrial grade ABS enclosure
- Panel / Field / Hazardous area installation in IP66 execution
- Current limiting for I/O protection
- Proven record of several thousand installations

BLOCK DIAGRAM



DIMENSIONAL DIAGRAM



How To Order

SIGNAL ISOLATING TRANSDUCER	TX-330				
Configuration and add-on options					
1 OPTICAL AND GALVANIC ISOLATION					
▶ Isolation Required		Y			
▶ Isolation Not Required		N			
2 INPUT SIGNAL					
▶ DC Current			L		
▶ DC Voltage			V		
3 OUTPUT SIGNAL					
▶ 4 to 20 mA DC				G	
▶ 0 to 10 V DC				O	
4 EXECUTION					
▶ DIN Rail mounting					D
▶ Field mounting in Weather-proof execution (Polycarbonate enclosure, Ingress protection)					W
▶ Field mounting in Flame/Ex-d execution (Cast Aluminum Alloy LM6 enclosure, for Gas groups IIA, IIB)					X

OUR OTHER PRODUCTS



FLOW TOTALIZER



SIGNAL ISOLATORS & TRANSDUCERS



TEMPERATURE SCANNER



FLAMEPROOF INSTRUMENTS



STATIC POWER SWITCHES



Designed and Manufactured by :

ASHE CONTROLS PRIVATE LIMITED

6/317, 318 & 319, Jogani Industrial Complex, Near ATI, Sion-Trombay Road, Chunabhatti (East), Mumbai - 400 022, India.

Phone : (022) 2405 1561, 2405 5791, 2405 5543 • E-mail : sales@ashecontrols.com • Website: http://www.ashecontrols.com