



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 DC/AC Voltage, DC/AC Current, 4 to 20 mA DC, RTD Pt-100 sensor, Thermocouple sensor, Frequency [Pulse], Resistance etc. and provide 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 TX-Series Signal Isolating measure an analog signal and convert the signal into two (or more) isolated analog signals of 4 to 20 mA DC [or as required]. The Output signals are linear with respect to the Input signal and each output is galvanically and optically isolated to a level of 1.5 KV rms for one minute.

The instruments operate on Universal AC or DC power supply. Optional features include higher load driving capability, digital indication facility, two-wire operation with auxillary 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

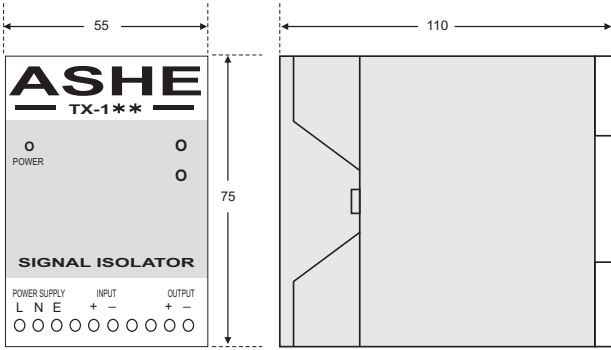
Model	ASHE TX-Series
Type	Signal Isolators Transducers & Repeaters
Principle	Optical Isolation, Signal Conditioning and Amplification.
Input Signal	DC/AC Voltage, DC/AC Current, RTD Pt-100, Thermocouple, Frequency, Resistance, etc.
Output Signals	Upto four isolated and buffered outputs of 4 to 20 mA DC / DC Voltage [or as required] .
Load Driving Capacity	600 Ohms for current output.
Linearity	± 0.1%.
Isolation	Between Input // Outputs // 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	90 to 270 VAC, 50 / 60 Hz. (Alternatively 24V DC)
Dimensions	100 x 22 x 110 mm. [H x W x D].
Execution	DIN-Rail / Wall mounting.
Enclosure	Industrial grade ABS.
Enclosure Colour	Industrial Grey
Weight	Approximately 0.4 kg.
Operating Temperature	0 to 55° C.

FEATURES

- Optical & Galvanic Isolation between Input, Outputs & Power Supply.
- CE certified instrument
- 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
- Output signal options of current / voltage
- Short-circuit / Open-circuit protection of outputs
- Front accessible Zero and Span calibration for all channels
- Auxillary power option for two-wire transmitters
- 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

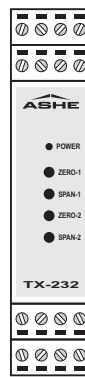
BLOCK DIAGRAM

DIMENSIONAL DIAGRAM

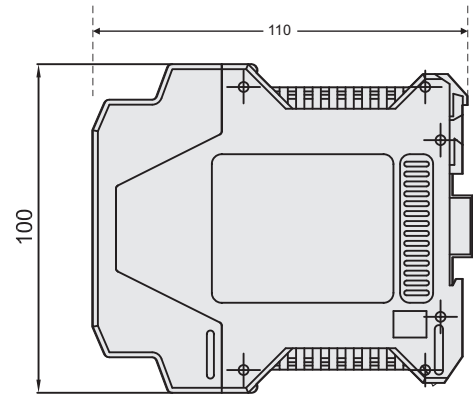


1 TX-100 SERIES

75 x 55 x 110 mm



2 TX-200 SERIES



100 x 22 x 110 mm

How To ORDER

SIGNAL ISOLATOR TRANSDUCERS & REPEATERS	TX				
Configuration and add-on options					
1 DIMENSIONS					
▶ 75 x 55 x 110 mm		1			
▶ 100 x 22 x 110 mm		2			
2 FUNCTION					
▶ DC Voltage to DC Current			05		
▶ RTD Pt-100 to DC Current			10		
▶ RTD to Dual DC Current			12		
▶ Thermocouple to DC Current			15		
▶ AC Current to DC Current			20		
▶ Frequency to DC Current			25		
▶ DC Current to DC Current			30		
▶ Two Analog Signal Outputs			32		
▶ Four Analog Signal Outputs			34		
▶ DC Voltage to DC Voltage			35		
▶ Resistance to DC Current			40		
▶ Resistance to Dual DC Current			42		
▶ DC Current to DC Voltage			45		
▶ AC Voltage to DC Current			50		
3 POWER SUPPLY					
▶ 90 to 270 V AC, 50 / 60 Hz				A	
▶ 20 to 70 V DC				D	
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, Chunabhathi (East), Mumbai - 400 022, India.

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