

TX-245 Current to Voltage Transducers



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-245 DC Current signal to Voltage Isolators measure a standard current loop signal of 4 to 20 mA DC and buffer the signal into an isolated DC voltage output of 0-10 V 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 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 / Wall-mounting 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.

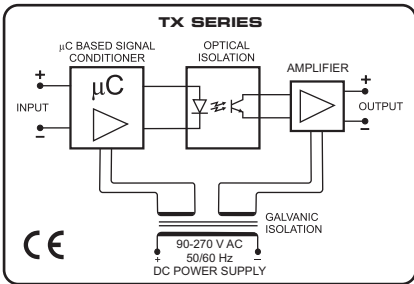
SPECIFICATIONS

Model	ASHE TX-245.
Type	Current to Voltage Transducer
Principle	Optical Isolation and Signal Conditioning.
Input Signal	4 to 20 mA DC.
Output Signal	0 to 10 V [or as required].
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	85 to 270 V AC, 50/60 Hz Universal AC power. [Optionally 20 to 70 VDC].
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 Kgs.
Operating Temperature	0 to 50°C.

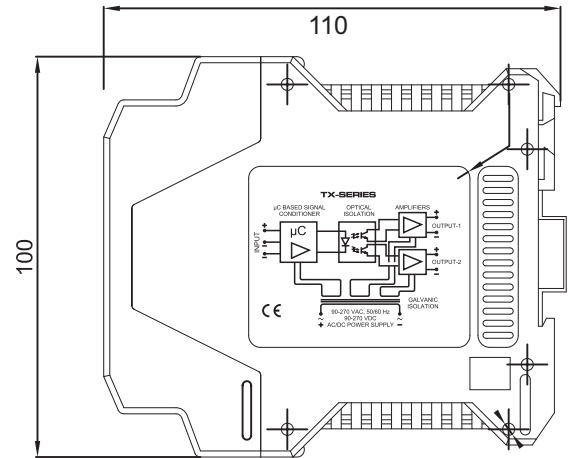
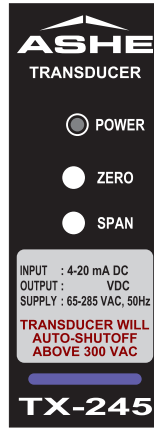
FEATURES

- 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
- Configurable output option of current / voltage
- Short-circuit / Open-circuit protection of outputs
- Front accessible Zero and Span calibration for all channels
- 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

BLOCK DIAGRAM



DIMENSIONAL DIAGRAM



How To ORDER

<p>DC CURRENT SIGNAL ISOLATOR Input : 4 to 20 mA DC. Output : 0 to 10 V DC Isolation : Optical and Galvanic.</p>	TX-245			
Configuration and Add-on options				
<p>1 OPTICAL AND GALVANIC ISOLATION</p> <ul style="list-style-type: none"> ▶ Required ▶ Not Required 		I N		
<p>2 POWER SUPPLY</p> <ul style="list-style-type: none"> ▶ 85 to 270 V AC, 50/60 Hz ▶ 20 to 70 VDC ▶ Other (to be specified) 			S D Z	
<p>3 EXECUTION</p> <ul style="list-style-type: none"> ▶ DIN Rail mounting [100 x 22 x 110 mm] ▶ Field mounting in Weather-proof execution (Polycarbonate enclosure, IP65 protection) ▶ Field mounting in Flame/Explosion-proof execution (Cast Aluminum Alloy LM6 enclosure, for Gas groups IIA, IIB) 				N W X

OUR OTHER PRODUCTS



FLOW TOTALIZER



SIGNAL ISOLATORS & TRANSDUCERS



TEMPERATURE SCANNER



FLAMEPROOF INSTRUMENTS



STATIC POWER SWITCHES



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