

TX-205 DC Voltage Isolating 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-205 DC Voltage to Current Isolating Transducers measure DC Voltage from nominal mV levels to several hundred Volts 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 / 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.



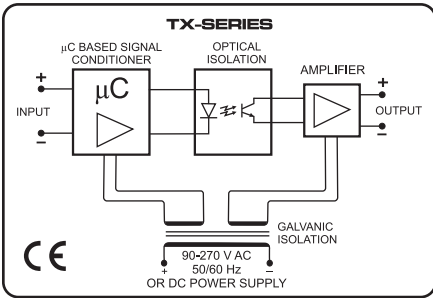
SPECIFICATIONS

Model	ASHE TX-205.
Type	DC Voltage Isolating Transducer.
Principle	Optical Isolation and Signal Conditioning.
Input Signal	4 to 20 mA DC / 0 to 10 VDC Other (to be pre-specified)
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	90 to 270 V AC, 50/60 Hz, Universal AC power Supply (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°C.

FEATURES

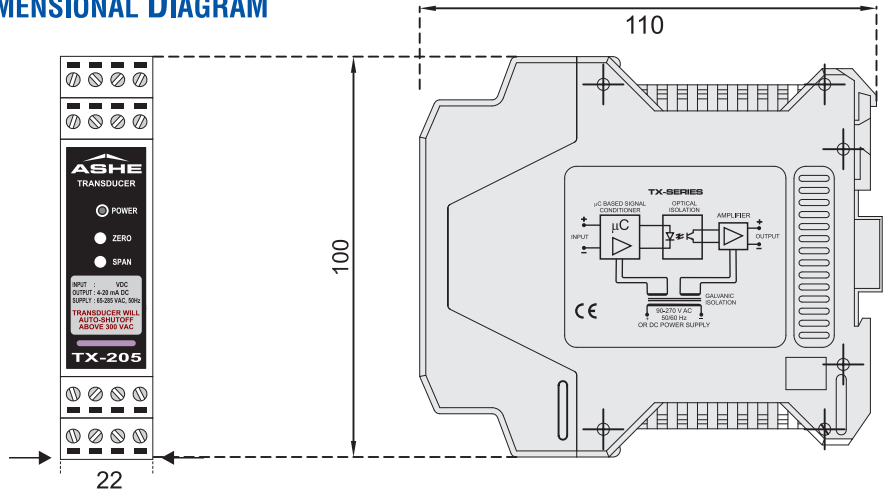
- Optical & Galvanic Isolation between Input, Output & Power Supply
- High accuracy and linearity to input signal
- Very low power consumption and heat dissipation
- Options of multiple [upto four] isolated outputs
- High load driving capacity of retransmitted signal
- Configurable output option of current / voltage
- Short-circuit / Open-circuit protection of outputs
- Front accessible Zero and Span calibration for all channels
- 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
- Proven record of several thousand installations

BLOCK DIAGRAM



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

DIMENSIONAL DIAGRAM



HOW TO ORDER

DC VOLTAGE TRANSDUCER	TX-205				
Configuration and add-on options					
1 INPUT SIGNAL					
▶ 4 to 20 mA DC					
▶ 0 to 10 VDC					
▶ Other (to be specified)		L			
		V			
		Y			
2 POWER SUPPLY					
▶ 90 to 270 V AC, 50/60 Hz				A	
▶ 20 to 70 VDC				D	
3 OUTPUT SIGNAL					
▶ 4 to 20 mA DC					
▶ 0 to 10 VDC					
▶ Other (to be specified)				G	
				O	
				Y	
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

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