ASHE CONTROLS PVT LTD
an ISO 9001:2015 certified company

TX-105

TX-Series DC Voltage Isolating Transducer



RoHS Compliant

MAKE IN INDIA

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 analog 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-105 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 3 KV RMS for one minute

The instruments operate on 110 or 230 Volts AC mains power supply or 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, 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 Exd 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

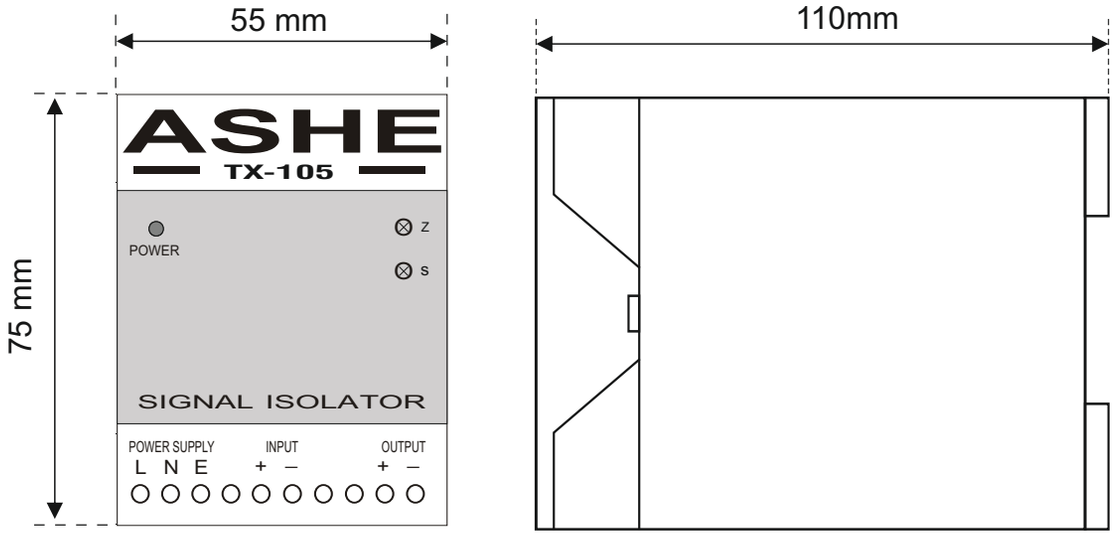
Model	ASHE TX-105.
Type	DC Voltage Isolating Transducer.
Principle	Optical Isolation and Signal Conditioning.
Input Signal	mV or Volts DC (As required).
Output Signal	4 to 20 mA DC (or as required).
Load Driving Capacity	600 Ohms.
Linearity	± 0.1%.
Isolation	Between Input // Output // Power Supply.
Isolation 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	110 VAC or 230 VAC (±15%), 50 Hz. (optionally 20 to 70 VDC)
Dimensions	75 x 55 x 110 mm. [H x W x D].
Execution	DIN-Rail / Rear panel 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
- Bipolar Input / Output signal option
- 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
- Digital Indication option with/without control relay outputs
- Auxiliary power ouput for two-wire transmitters
- Rugged, industrial grade ABS enclosure
- Panel / Field / Hazardous area installation in IP65 execution
- Current limiting for I/O protection
- Two-year Performance Warranty
- Proven track record of successful site installations

TX-Series DC Voltage Isolating Transducer

Dimensional Diagram



FRONT VIEW **SIDE VIEW**

How To Order

	DC VOLTAGE TRANSDUCER	**TX-105**				
	Configuration and add-on options					
1	**POWER SUPPLY**					
▸	AC Voltage, 230 VAC, 50 Hz		A			
▸	AC Voltage, 110 VAC, 50 Hz		Z			
▸	DC Voltage, 24 VDC		D			
2	**INPUT SIGNAL**					
▸	DC Voltage				V	
3	**OUTPUT SIGNAL**					
▸	DC Current					L

Our Other Products


FLOW TOTALIZER


SIGNAL ISOLATORS & TRANSDUCERS


TEMPERATURE SCANNER


FLAMEPROOF INSTRUMENTS


STATIC POWER SWITCHES

Designed and Manufactured by :
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