ASHE CONTROLS PVT LTD
an ISO 9001:2015 certified company

TX-245

TX-Series Current to Voltage Transducers



RoHS Compliant

MAKE IN INDIA

Modbus

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 TX Series Transducers are optionally available with RS485 Modbus RTU communication, enabling seamless transmission of the input process signal in digital format.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 3 KV RMS for one minute.

The instruments operate on 90 to 270 V 50/60 Hz Universal AC/DC 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 auxiliary power output, 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 Ex-d 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-245.
Type	Current to Voltage Transducer
Principle	Optical Isolation and Signal Conditioning.
Input Signal	4 to 20 mA DC.
Output Signal	0 to 10 VDC [or as required].
Linearity	$\pm$ 0.1%.
Isolation	Between Input // Output // Power Supply.
Isolation type	Optical and Galvanic.
Isolation level	3 kV RMS for one minute.
Output protection	Short / Open Circuit protection.
Calibration facility	Zero and Span settings [external].
Communication	RS485 on Modbus RTU communication (optional)
Accuracy	$\pm$ 0.1%.
Indication	Red LED for Power On.
Power Supply	90 to 270 V AC, 50/60 Hz Universal AC/DC 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.
Weight	Approximately 0.4 Kgs.
Operating Temperature	0 to 50^{0}C.

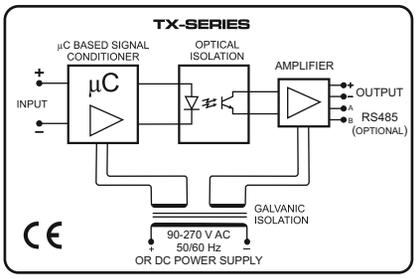
Features

- 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 (we offer in other enclosure)
- Configurable output option of current / voltage
- RS485 on Modbus RTU output option (to be specified)
- 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
- Two-year Performance Warranty
- Proven track record of successful site installations

TX-245

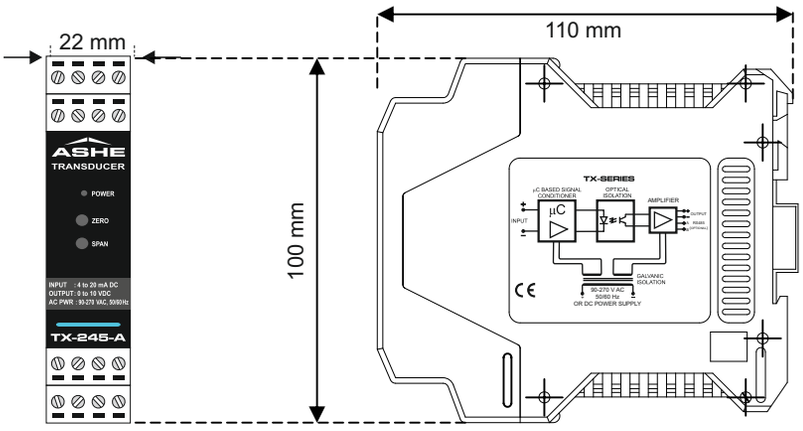
TX-Series Current to Voltage Transducers

Block Diagram



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

Dimensional Diagram



FRONT VIEW SIDE VIEW

How To Order

		TX-245				
	Configuration and add-on options					
1	**POWER SUPPLY**					
▸	AC Voltage 90 to 270 VAC, 50/60 Hz		A			
▸	DC Voltage 20 to 70 VDC		D			
2	**INPUT SIGNAL**					
▸	DC Current			L		
3	**OUTPUT SIGNAL**					
▸	DC Voltage				V	
4	**COMMUNICATION**					
▸	RS485 on Modbus RTU required					M
▸	RS485 on Modbud RTU Not required					N

Our Other Products


FLOW TOTALIZER


SIGNAL ISOLATORS & TRANSDUCERS


TEMPERATURE SCANNER


FLAMEPROOF INSTRUMENTS


STATIC POWER SWITCHES

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