ASHE CONTROLS PVT LTD
an ISO 9001:2015 certified company

TX-234

TX-Series Signal Isolating Repeater



RoHS Compliant

CE

MAKE IN INDIA

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 Series TX-234 Signal Isolating Multipliers measure an analog signal and convert the signal into four 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 auxiliary power output, etc.

The instruments are available in slim & 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.

This product is backed by a full two-year warranty, covering all manufacturing defects and workmanship issues under normal operating conditions.

Specifications

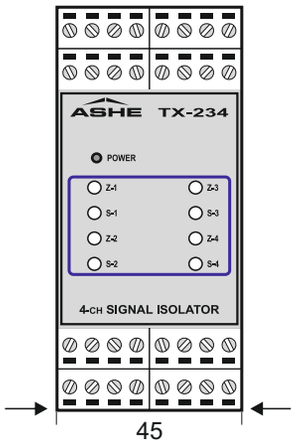
Model	ASHE TX-234.
Type	Analog Signal Isolating Repeater (Splitter).
Principle	Optical Isolation, Signal Conditioning and Amplification.
Input Signal	4 to 20 mA DC [or as required].
Indication	Red LED for Power On.
Output Signals	Four isolated and buffered outputs of 4 to 20 mA DC [or as required].
Load Driving Capacity	600 Ohms for each output.
Linearity	$\pm$ 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	$\pm$ 0.1%.
Power Supply	90 to 270 V AC, 50/60 Hz Universal AC/DC Power Supply (optionally 24 VDC).
Dimensions	45 x 100 x 110 mm. [W x H x D].
Enclosure	Industrial grade ABS. DIN Rail / Wall mounting.
Weight	Approximately 0.4 Kgs.
Operating Temperature	0 to 55^{0}C

Features

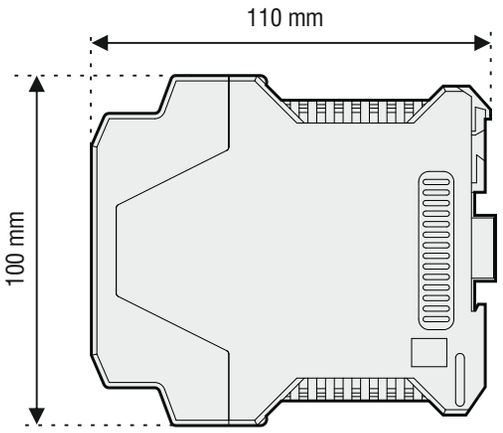
- Optical & Galvanic Isolation between Input, Outputs & Power Supply.
- High accuracy and linearity to input signal
- Very low power consumption and heat dissipation
- High load driving capacity of retransmitted signal
- Output signal options of current / voltage
- Short-circuit / Open-circuit protection of outputs
- Front accessible Zero and Span calibration for all channels
- Digital Indication option with/without control relay outputs
- AC or DC Power Supply Options
- 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 several thousand installations

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Dimensional Diagram



FRONT VIEW



SIDE VIEW

How To Order

	SIGNAL ISOLATING REPEATER (Four Channel)	**TX-234-**						
	Configuration and add-on options							
1	**POWER SUPPLY**							
▸	AC Voltage 90 to 270 VAC, 50/60 Hz		A					
▸	DC Voltage 24 VDC		D					
2	**INPUT SIGNAL**							
▸	DC Current			L				
▸	DC Voltage			V				
▸	RTD Pt-100			R				
▸	Thermocouple			T				
▸	Resistance			E				
3	**OUTPUT SIGNAL**							
▸	DC Current					L		
▸	DC Voltage					V		
4	**COMMUNICATION**							
▸	RS485 Modbus RTU required							M
▸	RS485 Modbus RTU not required							N

Our Other Products


FLOW TOTALIZER


SIGNAL ISOLATORS & TRANSDUCERS


TEMPERATURE SCANNER


FLAMEPROOF INSTRUMENTS


STATIC POWER SWITCHES

Designed and Manufactured by:
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