

TX-233 Dual Channel DC Current Signal Isolator



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 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-233 Dual Channel DC Current Signal Isolators measure two standard current loop signals of 4 to 20 mA DC and buffer the signals into independent and isolated current loop signals 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/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, 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 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.



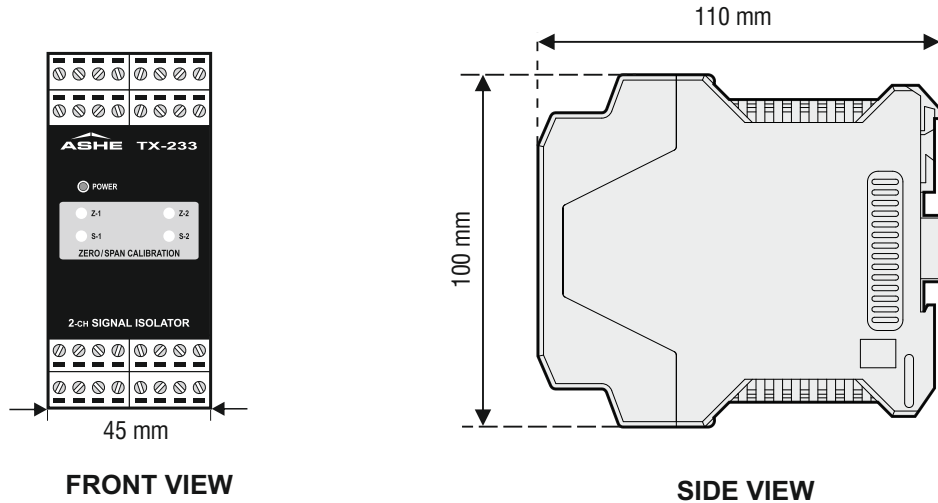
SPECIFICATIONS

Model	ASHE TX-233.
Type	Dual Channel DC Current signal Isolator.
Principle	Optical Isolation and Signal Conditioning.
Input Signals	Dual 4 to 20 mA DC.
Output Signals	Dual 4 to 20 mA DC (or as required).
Load Driving Capacity	600 Ohms for each output.
System	Four wire configuration.
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) for each output.
Accuracy	± 0.1%.
Indication	Red LED for Power On.
Power Supply	90 to 270 VAC, 50/60 Hz Universal AC/DC Power Supply (Optionally 20 to 70 VDC).
Dimensions	100 x 45 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 for each channel
- High accuracy and linearity to input signal
- Very low power consumption and heat dissipation
- Options of dual isolated outputs
- High load driving capacity of retransmitted signal
- Configurable output option of current / voltage (optional)
- Short-circuit / Open-circuit protection of outputs
- Front accessible Zero and Span calibration for both channels
- Four wire configuration system
- AC or DC Power Supply options
- Rugged, industrial grade ABS enclosure
- Panel / Field / Hazardous area installation in IP66 execution (optional)
- Current limiting for I/O protection
- Customized outputs offered
- Two-year Performance Warranty
- Proven track record of successful site installations

DIMENSIONAL DIAGRAM



How To ORDER

DUAL CHANNEL DC CURRENT SIGNAL ISOLATOR	TX-233				
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
▶ 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 (not for resistance Input)					M
▶ RS485 Modbus RTU not required					N

OUR OTHER PRODUCTS



FLOW TOTALIZER



SIGNAL ISOLATORS & TRANSDUCERS



TEMPERATURE SCANNER



FLAMEPROOF INSTRUMENTS



STATIC POWER SWITCHES