



VOLTAGE SIGNAL ISOLATOR

TX-235





SPECIFICATIONS

Model ASHE TX-235.

Type DC Voltage signal Isolator.

Principle Optical Isolation and Signal Conditioning.

Input Signal0 to 10 Volts DC [or as required].Output Signal0 to 10 Volts DC [or as required].

Linearity $\pm 0.1\%$.

Isolation Between Input // Output // Power Supply.

Isolation typeOptical and Galvanic.Isolation level1.5 kV rms for one minute.Output protectionShort / Open Circuit protection.Calibration facilityZero and Span settings [external].

Accuracy ± 0.1%.

IndicationRed LED for Power On.Power Supply85 to 270 V AC, 50 hz.[Optionally 20 to 70 V DC].

Dimensions 100 x 22 x 110 mm.

[H x W x D].

ExecutionDIN-Rail mounting.EnclosureIndustrial grade ABS.

Enclosure colour Opaline Green

Weight Approximately 0.3 Kgs.

Operating Temperature 0 to 50°C.

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, Strain-gauge, 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-235 DC Voltage signal Isolators measure a standard DC Voltage signal in mV or Volts and buffer the signal into an isolated DC Voltage signal [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 85 to 270 V 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, 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 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.

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
- Short-circuit / Open-circuit protection of outputs
- Front accessible Zero and Span calibration
- 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 IP65 execution
- Current limiting for I/O protection
- Customized outputs offered
- Proven record of several thousand installations
- Lifetime warranty on design and workmanship

VOLTAGE SIGNAL ISOLATOR

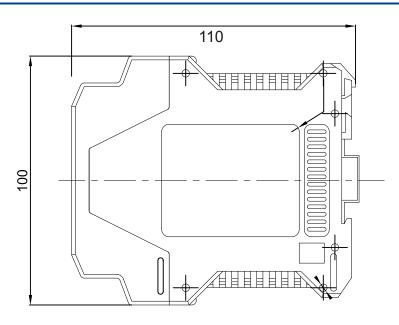
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DIMENSIONAL DIAGRAM

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





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TX-235

HOW TO ORDER

DC VOLTAGE SIGNAL ISOLATOR

Input: 0 to 10 V DC (or as required).

Output: 0 to 10 V DC.

Isolation: Optical and Galvanic.

Power Supply: 85 to 270 V AC, 50/60 Hz or 20 to 70 VDC.

Dimensions: 100 x 22 x 110 mm.

Configuration and Add-on options

1 OPTICAL AND GALVANIC ISOLATION

Required

Not Required

2 POWER SUPPLY

- ▶ 85 to 270 V AC, 50/60 Hz
- 20 to 70 VDC
- Other (to be specified)

3 EXECUTION

- DIN Rail mounting [100 x 22 x 110 mm]
- Field mounting in Weather-proof execution (Polycarbonate enclosure, IP65 protection)
- Field mounting in Flame/Explosion-proof execution (Cast Aluminum Alloy LM6 enclosure, for Gas groups IIA, IIB)

OUR OTHER PRODUCTS











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FLOW TOTALIZER SIG

SIGNAL ISOLATORS & TRANSDUCERS

TEMP. SCANNER

FLAMEPROOF INSTRUMENTS

STATIC POWER SWITCHES



ASHE CONTROLS PRIVATE LIMITED