



CURRENT TO VOLTAGE ISOLATING TRANSDUCER TX-145



SPECIFICATIONS

Model ASHE TX-145.

Type DC Current to DC Voltage Isolating

Transducer.

Principle Optical Isolation and Signal Conditioning.

Input Signal 4 to 20 mA DC [or as required].

Output Signal 0 to 10 V DC [or as required].

Linearity 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%.

Indication Red LED for Power On.

Power Supply 110 V AC or 230 V AC, 50 hz.

[Optionally 20 to 70 V DC].

Initial warm-up timeOne minute.Dimensions75 x 55 x 110 mm.

 $[H \times W \times D].$

Execution DIN-Rail / Rear panel mounting.

Enclosure Industrial grade ABS.
Enclosure colour Light Grey [RAL 7035]
Weight Approximately 0.4 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-145 DC Current to DC Voltage Signal Isolating Transducers measure a variable current 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 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 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

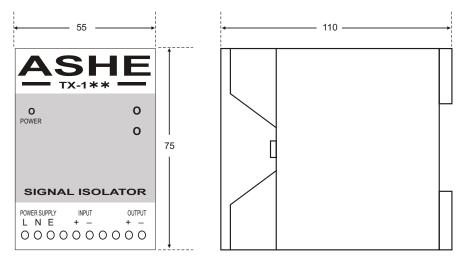
- Optical & Galvanic Isolation between Input,
- Output & Power Supply.
- High accuracy and linearity to input signal
- Very low power consumption and heat dissipation
- Options of multiple [upto four] isolated outputs
- High load driving capacity of retransmitted signal
- Configurable output option of current / voltageShort-circuit / Open-circuit protection of outputs
- Front accessible Zero and Span calibration for all channels
- Digital Indication option with/without control relay outputs
- Auxillary power for two-wire transmitters
- 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

CURRENT TO VOLTAGE ISOLATING TRANSDUCER TX-145



DIMENSIONAL DIAGRAM

Dimensions: 75 x 55 x 110 mm Execution: DIN Rail mount.



HOW TO ORDER DC CURRENT SIGNAL TRANSDUCER TX-145 Input: 4 to 20 mA DC. Output: 0 to 10 V DC. Isolation: Optical and Galvanic. Power Supply: 230 V AC, 50 Hz / 24 V DC. Dimensions: 75 x 55 x 110 mm. Configuration and Add-on options w **OPTICAL AND GALVANIC ISOLATION** Required Not Required Ν **POWER SUPPLY** 230 V AC (±10%), 50 Hz (±10%). S Н 110 V AC (±10%), 50/60 Hz (±10%). 24 V DC (±10%). D Ζ Other (to be specified). **EXECUTION** DIN Rail mounting [75 x 55 x 110 mm] Field mounting in Weather-proof execution W (Polycarbonate enclosure, IP65 protection) Field mounting in Flame/Explosion-proof execution Χ (Cast Aluminum Alloy LM6 enclosure, for Gas groups IIA, IIB) **RETRANSMISSION** Retransmission of 0 to 10 V DC No Retransmission 0 Other (to be specified)

OUR OTHER PRODUCTS







FLOW TOTALIZER







PROCESS CONTROLLER

UNIVERSAL CONTROLLER

TEMP. SCANNER

SIGNAL ISOLATORS & TRANSDUCERS

SMPS POWER SUPPLIES



ASHE CONTROLS PRIVATE LIMITED