



AC CURRENT TRANSDUCER

TX-120



SPECIFICATIONS

Model ASHE TX-120.

Type AC Current Isolating Transducer.

Principle Optical Isolation and Signal Conditioning.
Input Signal 0 to 1 Ampere / 5 Ampere [from CT

secondary].

Output Signal 4 to 20 mA DC [or as required].
Load Driving Capacity 600 Ohms.

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 time
One minute.
75 x 55 x 110 mm.
[H x W x D].

Execution DIN-Rail / Rear panel mounting.

EnclosureIndustrial grade ABS.Enclosure colourLight Grey [RAL 7035]WeightApproximately 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-120 AC Current Isolating Transducers measure AC Current from CT secondary [1A or 5A] and convert the signal into an isolated analog current loop signal of 4 to 20 mADC [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 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

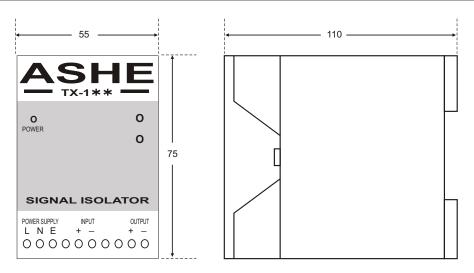
- Optical & Galvanic Isolation between Input, Output & Power Supply.
- High accuracy and linearity to input signal
- Very low power consumption and heat dissipation
- Options of multiple [upto four] isolated outputs
- High load driving capacity of retransmitted signal
- Configurable output option of 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

AC CURRENT TRANSDUCER



DIMENSIONAL DIAGRAM

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



HOW TO ORDER AC CURRENT TRANSDUCER TX-120 Input (pre-specified): 0 to 1 Ampere / 0 to 5 Ampere. Output: 4 to 20 mA 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 110 V AC (±10%), 50/60 Hz (±10%). Н D 24 V DC (±10%). Other (to be specified). Ζ 3 **EXECUTION** DIN Rail mounting [75 x 55 x 110 mm] Field mounting in Weather-proof execution \// (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 V No Retransmission 0 Other (to be specified)

OUR OTHER PRODUCTS













PROCESS CONTROLLER

UNIVERSAL CONTROLLER

FLOW TOTALIZER

SIGNAL ISOLATORS & TRANSDUCERS

SMPS POWER SUPPLIES



ASHE CONTROLS PRIVATE LIMITED