ASHE CONTROLS PVT LTD
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TX-122

TX-Series AC Current Isolating Transducer (Repeater)



Overview

The AC Current Isolating Transducer TX-122 is a compact and reliable instrument used in process control applications where it is desired to isolate and multiply an AC Current signal into two individual DC Current loops for purposes such as indication, feedback, control or recording. The instrument buffers the input AC current signal and provides two optically isolated DC current outputs with an enhanced load driving capacity.

The ASHE TX-122 AC Current Isolating Transducer is essentially a Signal Transducer, providing buffering and filtering of the input AC Current signal from transients, then converting the signals into two variable analog output signals which are isolated from the input power supply, and from each other. The output signals are linear with respect to the Input and are galvanically & optically Isolated to a potential level of 3.0 kV.

The instrument accepts an AC input signal of either 0 to 1 Ampere or 0 to 5 Ampere and provides two DC current output signals of 4 to 20 mA DC. The instrument operates on Universal AC Power Supply of 90 to 270 Volts AC, 50/60 Hz.

The instrument is available in standard and rugged industrial grade enclosures in DIN Rail / Rear-panel mounting execution. Absence of any moving parts provides these instruments inherent advantages like immunity to mechanical shocks, dust, ambient temperature, humidity and mildly corrosive ambiences.

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

Specifications

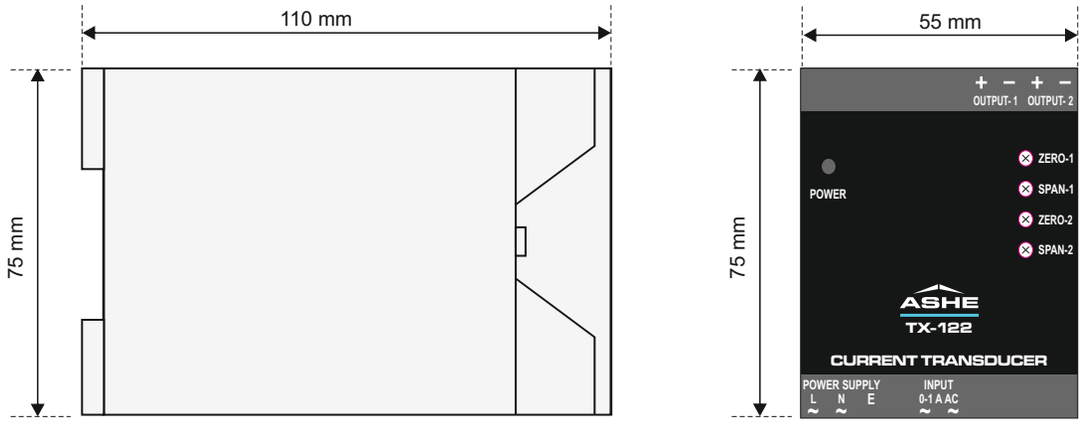
Model	ASHE TX-122.
Type	AC Current Isolating Transducer (Repeater)
Principle	Optical Isolation, Signal Conditioning and Amplification.
Input Signal	0 to 1 Amp / 5 Amp AC (from CT secondary).
Output Signals	Two independent & isolated signals of 4 to 20 mA DC.
Load Driving Capacity	600 Ohms for each output.
Linearity	± 0.1%.
Isolation	Between Input // Outputs // Power Supply.
Isolation Type	Optical and Galvanic.
Isolation Level	3 kV RMS for one minute.
Output Protection	Short / Open Circuit protection.
Calibration Facility	Zero and Span settings (external).
Accuracy	± 0.1%.
Indication	Red LED for Power On.
Power Supply	90 to 270 VAC 50/60 Hz.
Dimensions	75 x 55 x 110 mm. [H x W x D].
Execution	DIN-Rail / Rear panel mounting.
Enclosure	Industrial grade ABS.
Weight	Approximately 0.6 Kgs.
Operating Temperature	0 to 55°C.

Features

- Optical & Galvanic Isolation between Input, Outputs & Power Supply
- High accuracy and linearity to input signal
- Very low power consumption and heat dissipation
- Options of multiple (upto two) isolated outputs
- High load driving capacity of retransmitted signal
- Configurable output option of current / voltage
- Short-circuit / Open-circuit protection of outputs
- Front accessible Zero and Span calibration for both outputs
- 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 successful site installations

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Dimensional Diagram



SIDE VIEW **FRONT VIEW**

How To Order

	AC CURRENT ISOLATING REPEATER	**TX-122**					
	Configuration and add-on options						
1	**POWER SUPPLY**						
▸	AC Voltage 230 VAC / 50 Hz		A				
▸	DC Voltage 24 VDC		D				
2	**INPUT SIGNAL**						
▸	AC Current (0 to 1 Ampere)				C1		
▸	AC Current (0 to 5 Ampere)				C5		
3	**OUTPUT SIGNAL**						
▸	DC Current 4 to 20 mA DC					L	
▸	DC Voltage (to be specified)					V	

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