

## AC Current Isolating Transducer (Repeater)

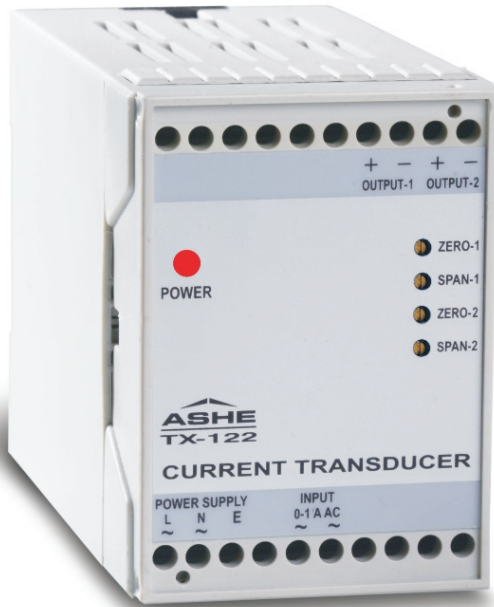
### OVERVIEW

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 pulses into two variable analog output signal which are isolated from the input and from each other. The Output signals are linear with respect to the Input and are Galvanically & Optically Isolated to a potential level of 2.0 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 ambiances.



### SPECIFICATIONS

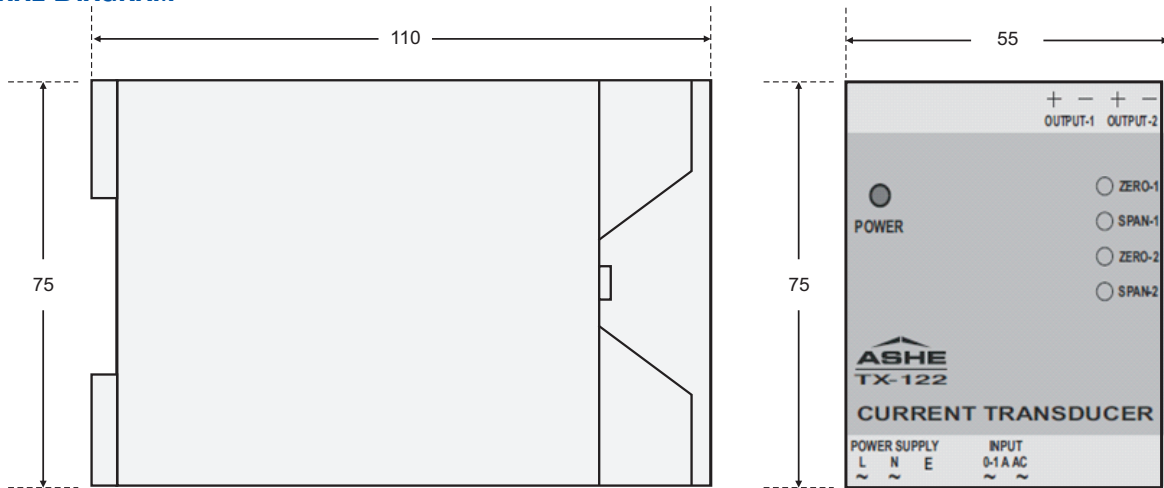
<b>Model</b>	ASHE TX-122.
<b>Type</b>	AC Current Isolating Transducer (Repeater)
<b>Principle</b>	Optical Isolation, Signal Conditioning and Amplification.
<b>Input Signal</b>	0 to 1 Amp / 5 Amp AC (from CT secondary).
<b>Output Signals</b>	Two independent & isolated signals of 4 to 20 mA DC.
<b>Load Driving Capacity</b>	600 Ohms for each output.
<b>Linearity</b>	± 0.1%.
<b>Isolation</b>	Between Input // Outputs // Power Supply.
<b>Isolation Type</b>	Optical and Galvanic.
<b>Isolation Level</b>	2 kV rms for one minute.
<b>Output Protection</b>	Short / Open Circuit protection.
<b>Calibration Facility</b>	Zero and Span settings (external).
<b>Accuracy</b>	± 0.1%.
<b>Indication</b>	Red LED for Power On.
<b>Power Supply</b>	90 to 270 V AC 50/60 Hz.
<b>Dimensions</b>	75 x 55 x 110 mm. [H x W x D].
<b>Execution</b>	DIN-Rail / Rear panel mounting.
<b>Enclosure</b>	Industrial grade ABS.
<b>Weight</b>	Approximately 0.6 Kgs.
<b>Operating Temperature</b>	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
- Proven record of several thousand installations

AC Current Isolating Transducer (Repeater)

**DIMENSIONAL DIAGRAM**



**How To ORDER**

AC CURRENT ISOLATING REPEATER	TX-122						
Configuration and add-on options							
<b>1 INPUT SIGNAL</b>							
▶ 0 to 1 Amp			1				
▶ 0 to 5 Amp			5				
<b>2 OPTICAL AND GALVANIC ISOLATION</b>							
▶ Required				Y			
▶ Not Required				N			
<b>3 POWER SUPPLY</b>							
▶ 90 to 270 V AC, 50/60 Hz					A		
▶ 24 VDC					D		
<b>4 OUTPUT SIGNALS</b>							
▶ Two 4 to 20 mA DC						G	
▶ Two Output Signals 0 to 10 VDC						O	
<b>5 EXECUTION</b>							
▶ DIN Rail mounting							D
▶ Field mounting in Weather-proof execution (Polycarbonate enclosure, Ingress protection)							W
▶ Field mounting in Flame/Explosion-proof execution (Cast Aluminum Alloy LM6 enclosure, for Gas groups IIA, IIB)							X

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Designed and Manufactured by :

**ASHE CONTROLS PRIVATE LIMITED**

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