



HIGH SPEED BUFFER AMPLIFIER

(FOR SERVO VALVES) TX-108



SPECIFICATIONS

Model ASHE TX-108.

Type Buffer Amplifier / Isolating Transducer.

Principle Optical Isolation and Signal Conditioning.
Input Signal mV or Volts DC [Unipolar / Bipolar].

Output Signal mA DC [Unipolar / Bipolar].

Load Driving Capacity 600 Ohms. **Linearity** 0.1%.

IsolationBetween Input // Output // Power Supply. **Isolation type**Optical 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 Supply110 V AC or 230 V AC, 50 hz.

Initial warm-up time
One minute.
75 x 55 x 110 mm.
[H x W x 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, Converters, 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-108 Buffer Amplifier / Isolating Transducers for Servo Valves offer bipolar voltage & current conversion with suitable amplification for valve driver applications. 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. 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

- Suitable for driving most servo valves.
- 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 / voltage
- Short-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 Power Supply operation
- 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

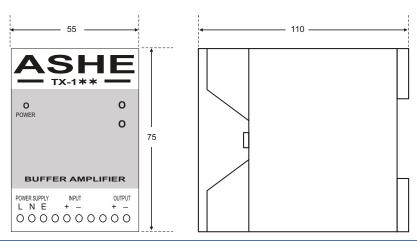
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DIMENSIONAL DIAGRAM

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



HOW TO ORDER HIGH SPEED BUFFER AMPLIFIER TX-108 Input (pre-specified) : DC Voltage (Bipolar) Output: mA DC (Bipolar) Isolation: Optical and Galvanic. Power Supply: 230 V AC, 50 Hz / 24 V DC. Dimensions: 75 x 55 x 110 mm. Execution: DIN rail mounted. Configuration and Add-on options w **OPTICAL AND GALVANIC ISOLATION** 1 Required Not Required Ν **POWER SUPPLY** 2 230 V AC (±10%), 50 Hz (±10%). S 110 V AC (±10%), 50/60 Hz (±10%). Н Other (to be specified). Ζ **EXECUTION** 3 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 No Retransmission 0 Other (to be specified)

OUR OTHER PRODUCTS













PROCESS CONTROLLER

UNIVERSAL CONTROLLER

FLOW TOTALIZER

TEMP. SCANNER

SIGNAL ISOLATORS & TRANSDUCERS

SMPS POWER SUPPLIES



ASHE CONTROLS PRIVATE LIMITED