



Installation & Operating Instructions

252-TTX

DC to DC Transducer

Warnings Caution: Risk of Electric Shock and Danger

- During normal operation, hazardous voltages may be present at some terminals of this unit.
- Installation and servicing must only be carried out by suitably qualified personnel in accordance with local regulations.
- Ensure all supplies are isolated before installation or maintenance.
- The product contains no internal fuses. External fuses or suitable circuit protection devices must be provided.
- If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.
- Terminals should not be user accessible after installation.
- This product is intended for measurement, isolation and signal conversion applications only and should not be used as the sole means of protection

Product Description

The Crompton Instruments 252-TTX DC to DC Transducer provides accurate measurement, galvanic isolation and conversion of DC voltage or current signals into industry-standard analogue outputs.

The product is designed for use in industrial automation systems, switchboards, renewable energy installations, battery energy storage systems and process control applications.

The transducer is supplied factory configured to the ordered input range, output range and auxiliary supply requirements.

Measurement

The 252-TTX provides linear conversion of a DC input signal into a proportional analogue output signal while maintaining galvanic isolation between input, output and auxiliary supply circuits.

Applications include:

- Industrial DC monitoring
- Solar photovoltaic systems
- Battery energy storage systems
- Process control systems
- SCADA and PLC monitoring

EMC Installation Requirements

This product has been designed for installation within industrial environments.

Good installation practice should be observed:

- Avoid routing signal cables alongside high-current conductors.
- Keep analogue signal wiring separate from switching and motor cables.
- Suppress surge transients at source where possible.
- Provide suitable earthing of associated equipment.
- In electrically noisy environments, additional EMC suppression devices may be required.

Installation

The 252-TTX may be mounted:

- On a standard 35mm DIN rail
- Directly to a suitable panel surface

The product should be installed:

- In a clean, dry environment
- Away from excessive vibration
- Away from direct sunlight
- Within the specified operating temperature limits

Allow sufficient clearance for cable routing and ventilation.

Fusing & Connections

The product does not contain internal fuses.

External circuit protection shall be provided in accordance with local regulations and installation requirements.

A suitably rated disconnecting device should be installed close to the equipment and clearly identified as the means of isolation.

Recommended conductor size:

- 0.5mm² to 2.5mm² stranded conductors

Environment

Parameter	Specification
Operating Temperature	0°C to +60°C
Storage Temperature	-10°C to +70°C
Relative Humidity	20-95% RH, non-condensing
Altitude	Up to 2000m

Mechanics

Parameter	Specification
Mounting	DIN Rail or Wall Mount
Enclosure	IP50
Case Material	ABS, UL94 V-0
Weight	<450g

Standards & Compliance

- IEC 61010-1
- IEC 61326
- IEC 60529 (IP50)
- CE Marked
- RoHS Compliant
- EN 50022 DIN Rail Mounting

Maintenance

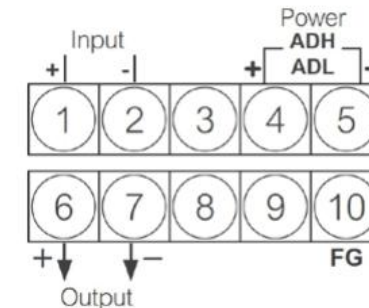
The 252-TTX contains no user-serviceable parts.

No routine maintenance is required other than:

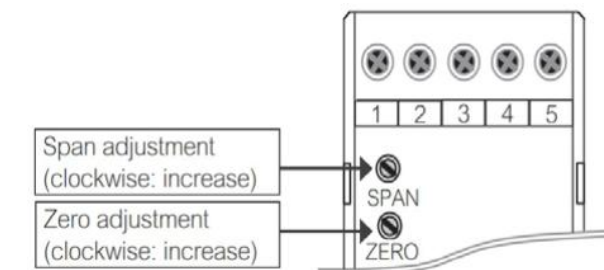
- Checking electrical connections
- Inspecting for signs of damage
- Removing dust accumulation where required

Do not open the enclosure.

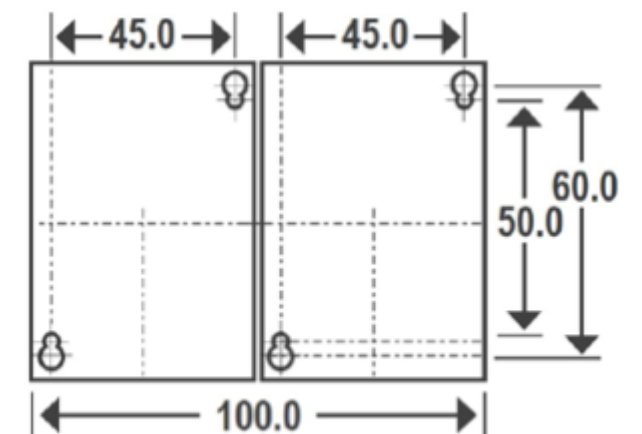
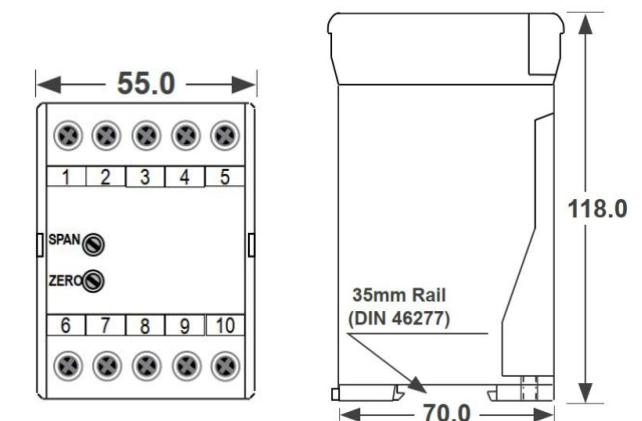
Wiring Diagram



Adjustment



Installation Dimensions



Unit: mm