CROMPTON INSTRUMENTS
252-TTX DC TO DC TRANSDUCER



DC-to-DC Voltage Transducer designed for accurate measurement and isolation of high DC voltages.

APPLICATIONS

- Industrial DC
- Solar PV systems

STANDARDS AND COMPLIANCE

- IEC 61010-1
- IEC 60529 (IP50)
- IEC 61326
- CE MARKED
- EN 50022 DIN Rail Mounting

KEY FEATURES

- Accurate measurement and isolation of high DC voltages, ideal for solar PV, battery energy storage and industrial DC monitoring applications.
- Accuracy ±0.2% F.S
- Low output ripple
- DIN Rail Mounting
- Resistant to high impulse voltage & surge protection
- High stability, galvanic isolation and long-term reliability
- 2 kV isolation withstand
- UL94 V-0 Flame Retardant Enclosure

TE Connectivity's (TE) Crompton Instruments 252-TTX DC to DC Transducers are designed for the accurate measurement, isolation and conversion of DC voltage and current signals. Suitable for industrial, renewable energy and battery storage applications, the transducer provides a proportional analogue output for monitoring, control and automation systems.

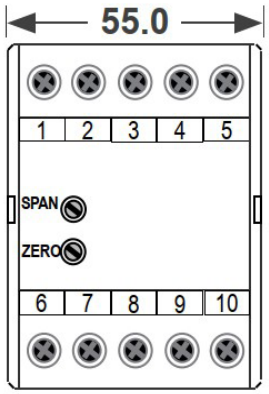
Featuring low output ripple, galvanic isolation, surge protection and high long-term stability, the 252-TTX offers a reliable and cost-effective solution for DC signal monitoring and retransmission.

Crompton Technology Inc,7538 Bath Rd, Mississauga, ON, L4T 1L2, T:905-671-2304, F:905-671-3661, info@cromptoncanada.com, www.cromptoncanada.com

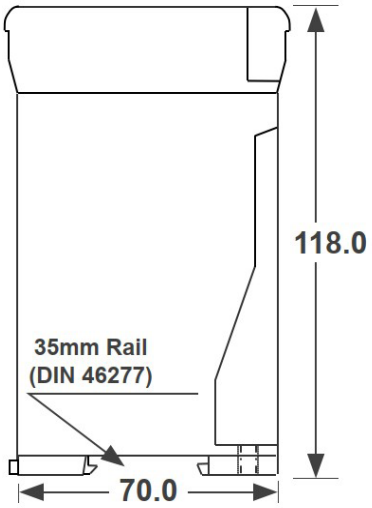
ORDERING INFORMATION

Input Range		Output Range		Power	
Code	Input Range	Code	Output Range	Code	Power
FA	0-1mA DC	FA	0-1mA DC	H	85-264V AC 100-300V DC
MS	0-10V DC	HG	4-20mA DC	L	20-56V DC
PB	0-75V DC	HF	0-20mA DC		
BF	0-110V DC	MS	0-10V DC		
PZ	0-150V DC	GZ	0-10mA DC		
BI	0-300V DC				
BL	0-600V DC				
SS	0-1000V DC				
EC	0-50mV DC				
EF	0-60mV DC				

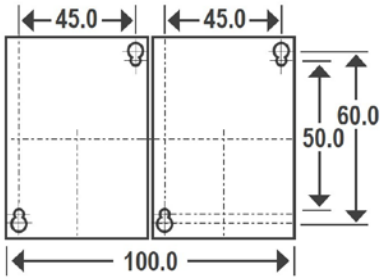
DIMENSIONAL INFORMATION & CONNECTION DIAGRAM



Unit= mm

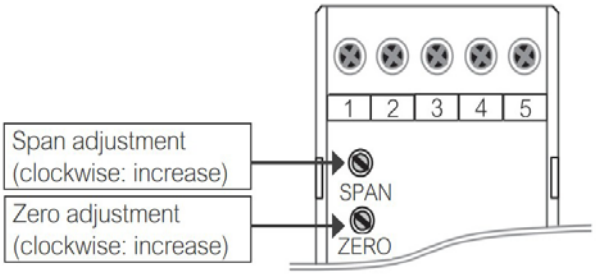


INSTALLATION

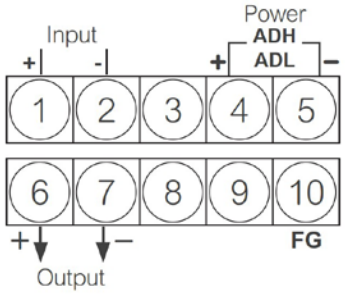


Unit: mm

ADJUSTMENT



PIN ASSIGNMENT



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TYPICAL APPLICATIONS

Solar PV String Monitoring	
Input / Output	**Application**
0 ~ 1000Vdc to 4-20mA	Solar PV String Monitoring
0 ~ 300Vdc to 4-20mA	Battery Energy Storage
0 ~ 150Vdc to 0-10V DC	Industrial DC Systems

ORDERING EXAMPLES

252-TTX-PZ-FA-H

PZ = 0-150V DC Input

FA = 0-1mA Output

H = 85-264V AC / 100-300V DC AUX SUPPLY

TECHNICAL SPECIFICATIONS

Input	
Input range	**Input resistance**
0 ~ 100Vdc	1MΩ
0 ~ 300Vdc	3MΩ
0 ~ 600Vdc	3MΩ
0 ~ 1000Vdc	4MΩ

Output		
Output range	**Load resistance**	**Output ripple**
0 ~ 10V	≧ 1KΩ	
0 ~ 1mA	≦ 11KΩ	
0 ~ 10mA	≦ 1100Ω	
0 ~ 20mA	≦ 550Ω	
4 ~ 20mA	≦ 550Ω	

Note: Electrical characteristics shown are for standard voltage input ranges. Additional voltage and current input ranges are available on request. Contact factory for application-specific performance data.

Specification	
Electrical Safety	
Dielectric strength	AC 2KV, 50/60Hz, for 1 min Between Input / Output / Power / Case
Insulation resistance	≧ 100MΩ, DC 500V
Safety	IEC 61010-1
Enclosure	IEC 60529 (IP50)
Accuracy	≦ ±0.2% of F.S.
Waveform effect	≦ 0.1% of F.S.
Max. input over	Voltage: 1.5 x rated continuous (1Kv Max) 2 x rated for 10 seconds (1Kv Max) 4 x rated for 2 seconds (1Kv Max)
Response time	≦ 250 mS
Span adjustment	≦ ±5% of F.S. (or ±20% of F.S. specify)
Zero adjustment	≦ ±2% of F.S. (or ±20% of F.S. specify)
Power Supply	
“H” Option	AC 85~264V, DC 100~300V
“L” Option	AC / DC 20~56V
Power consumption	≦ 7VA / 2W
Environmental Characteristics	
Operating temperature	0~60℃
Operating relative humidity	20~95 %RH, non-condensing
Temperature coefficient	≦ 100 PPM/℃
Storage temperature	-10~70℃

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