

2-WIRE

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2-WIRE TRANSMITTER

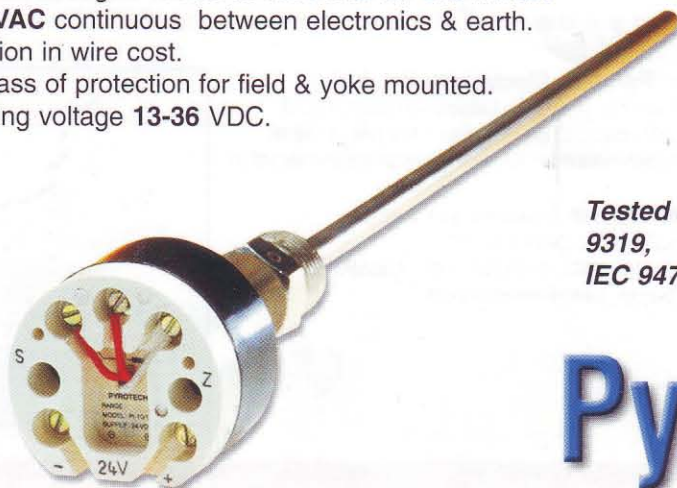
PEPL

PYROTECH 2-wire transmitter are highly precise available in Field/Yoke/Din rail/Head mounted versions and having one/two/three outputs as per the requirement. The output of the transmitter is isolated from the input (except head mounted). The output can be fed in series to PLC, Controllers, Recorders etc.



FEATURES:

- ✓ Insulation strength: Tested at **1500VAC** for one minute & **500 VAC** continuous between electronics & earth.
- ✓ Reduction in wire cost.
- ✓ **IP65** class of protection for field & yoke mounted.
- ✓ Operating voltage **13-36 VDC**.



Tested as per IS9000, IEC 68-2, IS 3231, IS 9319, IEC 947, IEC 770, IEC 688, IEC 801

Pyrotech



2-WIRE TRANSMITTER

Technical Specifications

Model Codes

Model : 2W- (———)
Type : 2-Wire.

Input / Output

Input : Please see ordering information.
Input Impedance : (1) 100Kohms(ACV,DCV & DCmV).
(2) 100Kohms (T/C).
(3) 100 ohms(DC mA).
Output : (A) 4-20mA DC.
(B) 1-5VDC.
Load on Output : $\{Vs-(0.5Vr + 12)\} / 0.02$ ohms.
Input/Output Isolation : 1000VDC or peak AC.

General Specifications

ACJC : Provided for T/C input.
Adjustability : $\pm 20\%$ of span.
Burn-out protection : (1). Upscale (for T/C, RTD & R).
(2). Down scale (Others).
Antihumidity treatment : Acryform conformal coating on PCB.

Performance

Linearity : Within $\pm 0.25\%$ of span.
Accuracy : Within $\pm 0.25\%$ of span. ($\pm 0.1\%$ on request).
Response time : Within 1 second.
Supply voltage variation : $\pm 0.01\%$ of span per volt change.
(Over 13-36 VDC).
Permissible ripple in supply voltage(Vr) : Max. 5 Vp-p.
Insulation resistance : 200Mohms at 1000VDC.
Heat test : 8 hours at 70°C.
Adjustment : Zero & span are adjustable by two individual trimpots.
Insulation strength : Tested at 1500V RMS for 1 minute, & 500 VAC continuous between electronics & earth.

Installation

Power supply(Vs) : 13-36VDC(Reverse polarity protected).
Operating Ambient - Temperature : 0-60°C.
- Humidity : 5-95% RH.
Storage temperature : -20 to 80°C.
Mounting : (A) Field/Wall (ABS).
(B) Din rail(ABS).
(C) Yoke(Cast Aluminium).
Terminals : Suitable for conductors up to 1.5 Sq.mm.
Size : (A) 171(H)x121(W)x55(D)mm for field.
(B) 75(H)x45(W)x112(D)mm for Dinrail.
(C) 133(H)x104(W)x150(D)mm for Yoke.

1) NOTE : Vs = Supply voltage, Vr = Ripple in supply voltage.

ORDERING DATA

2-W Transmitter

INPUT

PT-100 RTD
THERMOCOUPLE
Fe/Ko (J-Type)
Cr/Al (K-Type)
Pt-Rh-Pt-10% (S-Type)
Pt-Rh-Pt-13% (R-Type)

RESISTANCE
DC CURRENT
DC VOLTAGE
OTHER SPECIFY

OUTPUT

4-20 mA
1-5 VDC
OTHER SPECIFY

POWER SUPPLY

13-36 VDC

MOUNTING

YOKE (2" PIPE)
ABS FIELD
DIN RAIL, 35 mm Std.
OTHER SPECIFY

DISPLAY (ONLY FOR YOKE MOUNTED)

NOT REQUIRED
DISPLAY REQUIRED

ORDER NO.

2W -				
	0	0		
			1	A
			1	B
			1	C
			1	D
		2		0
		3		0
		4		0
		9		0
			0	
			1	
			9	
				0
				1

Head Mounted Transmitter (Non Isolated)

Model: **2W-00-00-H** For RTD PT-100.
Model: **2W-1A-00-H** For J type T/C.
Model: **2W-1B-00-H** For K type T/C.



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