HEADMOUNT TRANSMITTERS

MILLIVOLTS THERMOCOUPLES PT100 **POTENTIOMETERS**

- N Headmount
- 2-wire
- **■** Loop powered
- Analogue
- N Low cost
- N High quality ■
- DIN size 43mm
- Nobust terminals Nobus
- Australian made

- **■** Low profile
- Scaleable
 Scaleable
 ■
 Scaleable
 Scaleable
 ■
 Scaleable
 S
- N High accuracy ■
- **■** Good stability
- **▼** Fixed or rangeable
- N CJC for Tc's
- Neets EMC specs ■
- **№** Fully encapsulated



GUARANTEE:

This product is guaranteed against faulty workmanship or defective material, for a period of 3 (three) years from the date of delivery by INSTROTÉCH.

INSTROTECH undertakes to replace without charge all defective equipment which is returned during the period of guarantee (transportation costs prepaid) provided there is no evidence that the equipment has been abused or mishandled in any way.

In the interests of continuous product improvement, INSTROTECH reserves the right to alter any specification without prior notice.

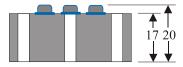
Instrotech Australia Pty Ltd

P O Box 3137 Newton SA 5074

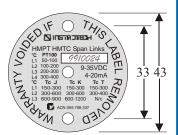
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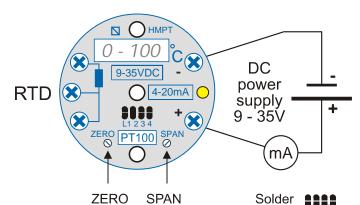
DIMENSIONS: mm



3 x 4.1 diameter holes



TERMINATIONS:



potentiometer potentiometer links

DC power Tc supply + 9 - 35V ZERO Tc K

CALIBRATION:



- 1 For rangeable versions, make the solder link for the SPAN required as per the table on Page 2.
- 2 Connect a 24V DC power supply and a mA indicator, or a loop calibrator, to the supply.
- 3 Connect a PT100, Thermocouple, mV or Potentiometer simulator to the input terminals.
- 4 Simulate the ZERO value and adjust with the ZERO potentiometer for the required reading.
- 5 Simulate the SPAN value and adjust with the SPAN potentiometer for the required reading.
- 6 Repeat steps 4 and 5.



Typical Specifications for both Fixed and Rangeable versions

MODELS		НМ	IPT HM	тс нмі	MV H	IMPO	
Size and type		43mm diameter x 20mm high overall, DIN, headmount					
Power supply			9 - 35V DC, with flush top LED indicator				
Power supply effect			0.0063% / V				
Reverse polarity		Protection provided					
Output			4 - 20mA (28mA maximum)				
Load capability		(V[bat] - 9 V) / 20mA					
Operating temperature range			-40 to +85 °C				
Zero adjustment			Potentiometer : -50 to +50°C				
Span adjustment			Potentiometer : -30 to +40% of minimum ranges selected				
Zero drift			± 0.025% / °C				
Span drift			± 0.	.010% / °C			
PT100 RTD			НМРТ				
Ranges (see table below)			-50 to 400°C, in factory fixed or link selectable ranges				
Linearisation			0.25%				
Sensor load effect			0.03°C / ohm				
Burnout / line failure			1 line : 27mA typical - 2 lines : 2.2mA typical				
Maximum	n sensor line res	istance	250 ohms				
Thermocouple			НМТС				
Therm	ocouple		HM	ITC			
	ocouple anges (see table	below)		to 900°C, in fac	ctory fixed or linl	k selectable	ranges
Type J ra	•	-	-50		-		_
Type J ra	nges (see table	below)	-50 -50	to 900°C, in fac	ctory fixed or linl	k selectable	ranges
Type J ra	anges (see table anges (see table	below)	-50 -50 -50	to 900°C, in factor 1200°C, in factor	ctory fixed or linl ctory fixed or linl	k selectable k selectable	ranges ranges
Type J ra Type K ra Type T ra	anges (see table anges (see table anges (see table	below)	-50 -50 -50 Ups	to 900°C, in facto 1200°C, in facto 400°C, in facto	ctory fixed or linl ctory fixed or linl	k selectable k selectable	ranges ranges
Type J ra Type K ra Type T ra Burnout Cold junc	anges (see table anges (see table anges (see table	below)	-50 -50 -50 Ups 0.08	to 900°C, in factor 1200°C, in factor 400°C, in factor 400°C, in factor 27mA (star	ctory fixed or linl ctory fixed or linl	k selectable k selectable	ranges ranges
Type J ra Type K ra Type T ra Burnout Cold junc	anges (see table anges (see table anges (see table ction drift n sensor line res	below)	-50 -50 -50 Ups 0.09	to 900°C, in facto 1200°C, in facto 400°C, in factor 400°C, in fact	ctory fixed or linl ctory fixed or linl	k selectable k selectable	ranges ranges
Type J ra Type K ra Type T ra Burnout Cold junc Maximum	anges (see table anges (see table anges (see table ction drift n sensor line res	below) below) istance	-50 -50 -50 Ups 0.09 10 I	to 900°C, in facto 1200°C, in facto 400°C, in	ctory fixed or linl ctory fixed or linl ndard) Downsca	k selectable k selectable le 2.2mA (op	ranges ranges otional)
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Type J ra Type K ra Type T ra Burnout Cold junc Maximum Millivo Ranges (Potent Ranges (SPAN	anges (see table below anges (see table a	below) below) iistance	-50 -50 -50 Ups 0.05 10 I HM 10 t HM 100 2 J	to 900°C, in facto 1200°C, in facto 400°C, in	ctory fixed or link ctory fixed or link ndard) Downsca	k selectable k selectable le 2.2mA (operations) selectable researched	ranges ranges otional) anges anges Pot
Type J ra Type K ra Type T ra Burnout Cold junc Maximum Millivo Ranges (Potent Ranges (SPAN	anges (see table below the see table below anges (see table anges (see tabl	below) below) istance) Type	-50 -50 -50 Ups 0.09 10 I HM 100 + J	to 900°C, in facto 1200°C, in facto 400°C, in	ctory fixed or link ctory fixed or link ndard) Downsca	selectable researched in the selectable researched researched in the selectable researched in the selectable researched	ranges ranges otional) anges Pot 1 K ohms



Note: These ranges are factory fixed or solder link selectable on the top of the transmitter