

# Mineral Insulated Transmitter

- Standard range -58...+662°F
- Bendable probe
- Zero point and span adjustment with programming kit
- Output signal 4 ... 20mA or optional (configurable with programming kit) 20...4mA
- Thermoplastic housing



## About

The P62 is a compact, temperature transmitter equipped with a mineral-insulated (MgO) probe and an IP67-rated overmolded casing. Designed for reliability and precision, it connects via an M12 connector, making it an ideal solution for industrial environments. Reverse polarity protected and available as 4...20mA or 20...4mA with use of programming kit.

## Applications

- ✓ Generators
- ✓ Compressors
- ✓ Industrial automation
- ✓ HVAC-R
- ✓ CNC machines
- ✓ Skid Packagers
- ✓ Test Benches
- ✓ More

## Build Your Part Number

## Series P62

Example: P62L1D3T1AB1C1

Series	
P62	

Probe Length - select one	
L1	100mm
L2	150mm
L4	250mm
L5	350mm
L6	500mm
L9	750mm
L7	1000mm
LX	Custom - please specify under part number; Example: LX = 75mm (minimum length is 50mm; lengths over 100mm must be in steps of 50mm)

Probe Diameter - select one	
D3	3mm
D5	6mm

Range -58 ...+662°F - select one	
T1	32...302°F factory calibrated default Note: can be scaled by user with PSRC1 configuration kit (see page 6) Note: from zero point to full scale, minimum tolerance = 68°F / 20°C is the minimum possible span)
XX	Use "X...XXX" for custom factory set range (Ex: ex: -0...+125°F / ex: -32...+95°F / ex: +25...400°F) Please inform range below part number Note: from zero point to full scale, minimum tolerance = 68°F (68°F / 20°C is the minimum possible span)

Output Signal - select one		Supply
A	4 ... 20mA	24 (5.5 ... 32) VDC
Y	20 ... 4mA	24 (5.5 ... 32) VDC

Adjustable Process Connection allowing for Probe Length Insertion Variation – optional (select only if desired)	
5A	1/8" NPT male (only for 3mm probe diameter)
5C	1/4" NPT male
5X	3/8" NPT male
5E	1/2" NPT male
5M	G1/8" male (only for 3mm probe diameter)
5N	G1/4" male
5Y	G3/8" male
5Q	G1/2" male

# Build Your Part Number

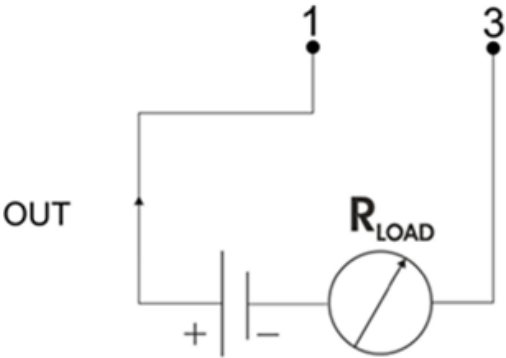
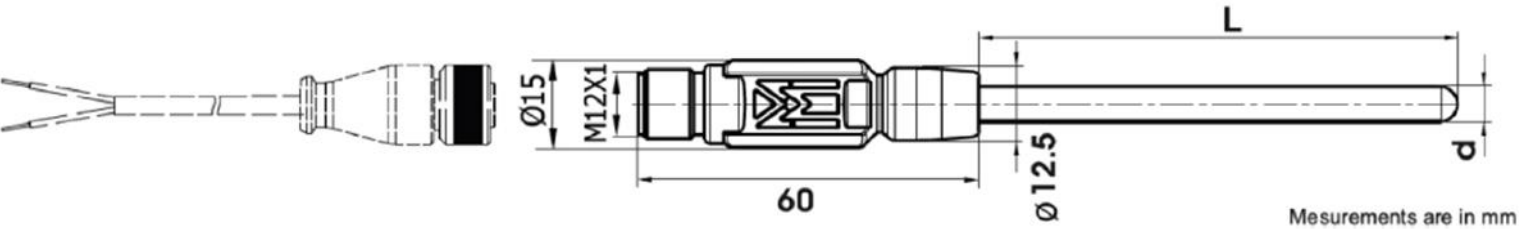
Series P62

Example: P62L1D3T1AB1C1

Mating Electrical Connection Assembly - optional; will be quoted as a separate line item	
Part#	
PSE1	M12x1, 5 pole - straight with cable gland (field wireable)
PSE2	M12x1, 5 pole - straight with 1 meter PUR cable
PSE3	M12x1, 5 pole - straight with 3 meter PUR cable
PSE4	M12x1, 5 pole - straight with 1 meter PUR shielded cable
PSE5	M12x1, 5 pole - straight with 3 meter PUR shielded cable
PSE6	M12x1, 5 pole - 90° (field wireable)
PSE7	M12x1, 5 pole - 90° with 1 meter PUR shielded cable
PSE8	M12x1, 5 pole - 90° with 3 meter PUR shielded cable

Configuration Kit - optional; will be quoted as a separate line item; see page 5	
Part#	
PSRC1	To be used with a PC and windows operating system

## Dimensions (mm)



# Technical Parameters

Technical Parameters		
<b>Accuracy</b>	Accuracy	Max value between $\pm 32.18^\circ$ and $\pm 0.1\%$ of span (class A up to $572^\circ\text{f}$ )
	Temp. influence deviation from $68^\circ\text{F}$	Max value between $\pm 32.54^\circ\text{F}$ / $77^\circ\text{F}$ and $\pm 0.3\%$ of span/ $77^\circ\text{F}$
	Long term stability	Max $0.1\%$ of span per year
	Minimum span	$68^\circ\text{F}$
	Error compensation	$\pm 41^\circ\text{F}$ over two points
	Response time	<3.5 seconds for 3mm diameter probes <13 seconds for 6mm diameter probes
	Input filter (time to reach 90% of signal)	Configurable from 0.4 ... 9.4 seconds
	Zero point and span adjustment	By $\pm 41^\circ\text{F}$ ( $\pm 5^\circ\text{C}$ ) at each end (with configuration kit)
<b>Electrical</b>	Power supply	5.5 ... 32 VDC polarity protected
	Output signal	4...20mA 20...4mA
	Sensor current	~100 uA
	Connection	M12x1, 4 - pole
	Sensor open (break) indication	Output signal will default to 21mA in accordance to NAMUR NE43 Can be downscaled to 3.6mA with configuration kit
	Short circuit indication	Output signal will default to 3.6mA in accordance to NAMUR NE43 Can be to 21mA upscaled to 21mA with configuration kit
	Isolation in-out	Non-isolated
	Load	Max load $840\Omega$ @ 24 VDC [Resistance load = (Voltage supply - 5.5) / 0.022]
	Configurability	From $-58...+662^\circ\text{F}$ with P60 configuration kit
	Inverse-polarity protection	Yes
<b>Environmental</b>	Measurement temperature range	Standard $-58 ... 662^\circ\text{F}$
	Electronics range	$-40 ... 185^\circ\text{F}$ electronic board
	Protection	IP67
	Humidity	0 ...100% (noncondensing)
<b>EMC</b>	In accordance to	EN 61326-1 :2013 (CE)
	In accordance to	BS EN 61326-1 :2013 (UKCA)
<b>Mechanical</b>	Probe	AISI 316L
	Probe bending radius	3 X probe diameter (except for the first 30mm from the probe tip)
	Probe diameter	3 mm 6 mm
	Process connection	AISI 316L
	Housing	Thermoplastic ( $-40...+185^\circ\text{F}$ )

# PSRC1 Configurator Kit

Technical Parameters		
Communication Interface	Connect to PC by USB	No additional power source required
	Compatible operating systems	Windows 7,8,10 (32 or 64 bit edition)
	Free space on PC	50 Mbytes
	PC port	1x USA 1.1 or later type A port
Electrical	Galvanic isolation	2KVdc/1s
Environmental	Operating temperature	0...+122°F
	Storage temperature	-4...+185°F
	Humidity	0 ...90%
EMC	In accordance to	EN 61326-1 :2013 (CE)
	In accordance to	BS EN 61326-1 :2013 (UKCA)



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