PAQUIN SENSORS

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Mineral Insulated Compact Transmitter

- Scalable from -58...+662°F with PSRC1 programming kit
- Response time in 0.5 seconds
- Zero point and span adjustment
- 4 ... 20mA or optional
 20 ... 4mA
- AISI 316L housing





About

The P63 is a compact, programmable temperature transmitter equipped with a mineral-insulated (MgO) probe and an IP67-rated overmolded casing. Designed for reliability and precision, it an ideal solution for industrial environments. Reverse polarity protected and available as 4...20mA or 20...4mA.

Applications

- ✓ Generators
- ✓ Compressors
- ✓ HVAC-R
- ✓ CNC machines
- Skid Packagers
- ✓ Test Benches
- √ Food & beverage
- ✓ Pharmaceutical

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Build Your Part Number

Custom - please specify under part number; Example: LX = 67mm

Series P63

Series

L7

1000mm

Example: P63L1T1AB1C15C

P63	P63		
Prob	Probe Length - select one		
L1	100mm		
L2	150mm		
L4	250mm		
L5	350mm		
L6	500mm		
L9	750mm		

Range -58+662°F - select one			
	0302°F factory calibrated default		
П	Note: can be scaled by user with PSRC1 configuration kit (see page 6)		
	Note: from zero point to full span, minimum tolerance = 68°F		
vv	Use "XXXX" for custom ranges (Ex: ex: -0+125°F / ex: -32+95°F / ex: +25400°F) Please inform range below part number		
XX	Note: from zero point to full span, minimum tolerance = 68°F		

Output Signal - select one		Supply
Α	4 20mA	24 (5.5 32) VDC
Υ	20 4mA	24 (5.5 32) VDC

Probe break - select one		
B1	Auto default to 3.6mA	
B2	Auto default to 21mA	

Short	Short Circuit - select one		
C1	Auto default to 3.6mA		
C2	Auto default to 21mA		

Process Connection - select one		
5C	1/4" NPT male	
5E	1/2" NPT male	
5N	G1/4" male	
5Q	G1/2" male	
5X	¾" Tri-clamp	
5V	1½" Tri-clamp	

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		

Range Configuration Kit - optional; will be quoted as a separate line item; see page 4		
Part#		
PSRC1	To be used with a PC and windows operating system	

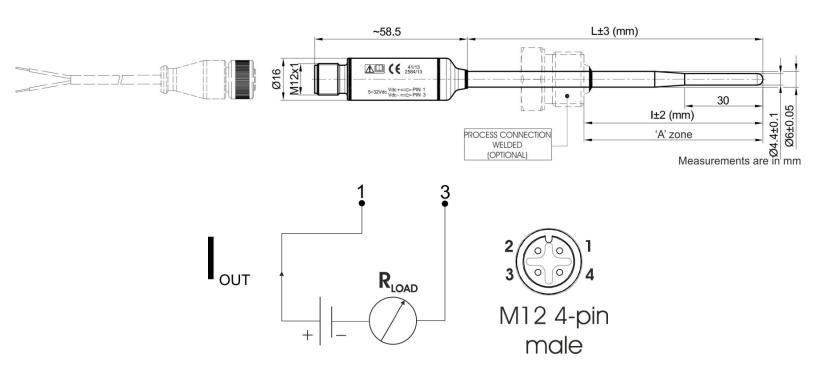


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Technical Parameters

Accuracy	Accuracy	Max value between ±32.18°F and ±0.1% of span (Class A up to 572°F)
	Temp. influence deviation from 68°F	Max value between ±32.54°F/77°F and ±0.3% of span/77°F
	Long term stability	Max 0.1% of span per year
	Minimum span	68°F
	Error compensation	±41°F over two points
	Response time	<5 seconds
	Input filter (time to reach 90% of signal)	Configurable from 0.4 9.4 seconds
	Zero point and span adjustment	By ±9°F at each end (with configuration kit)
Electrical	Power supply	5.5 32 VDC polarity protected
	Output signal	420mA 204mA
	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 upscaled to 21mAmA with configuration kit
	Isolation in-out	Non-isolated
	Load	Max load 840 Ω @ 24 VDC [Resistance load = (Voltage supply – 5.5) / 0.022]
	Range configurability	From -58+230°F with P60 configuration kit
	Inverse-polarity protection	Yes
Environmental	Measurement temperature range	Standard -58 662°F
	Electronics range	-40 185°F electronic board
	Protection	IP67
	Humidity	0100% non-condensing
EMC	In accordance to	EN 61326-1 :2013 (CE)
	In accordance to	BS EN 61326-1 :2013 (UKCA)
Mechanical	Probe	AISI 316L
	Probe diameter	6mm tapered to 4.4mm
	Process connection	AISI 316L
	Housing	AISI 316L (-40+185°F)

Dimensions (mm)





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PSRC1 Range	
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/ls
Environmental	Operating temperature	0+122°F
	Storage temperature	-4+185°F
	Humidity	090%
ЕМС	In accordance to	EN 61326-1 :2013 (CE)
	In accordance to	BS EN 61326-1 :2013 (UKCA)







Paquin Sensors' product portfolio is designed to provide options to fit the most diverse range of specifications.

We collaborate with our customers to match the best product technologies with your unique application requirements.

Please <u>contact us</u> or call +1 (800) 831-8217 anytime to discuss your needs!