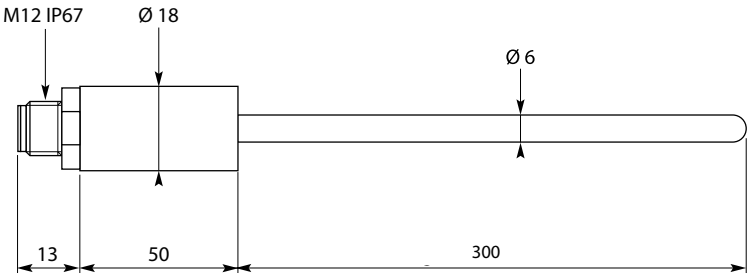
Datasheet

Pt100 Probe

DTRL300-5





Part Number : DTRL300-5

Product description : Compact RTD Pt100 class 1/3DIN with transmitter and M12 connector output

Product detail : Compact RTD Pt100 class 1/3DIN 3 wire with transmitter and M12 connector output 2 wire body Ø18x50 mm 6 mm diameter stainless steel probe, length : 300 mm

SPECIFICATIONS

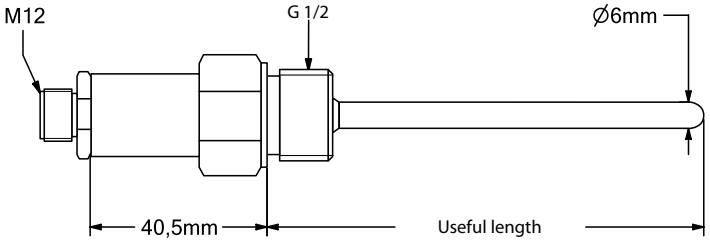
Attribute	Value
Sensor Type :	PT100
Probe Length :	300 mm
Probe Diameter :	6 mm
Minimum Temperature Sensed :	0°C
Maximum Temperature Sensed :	+100°C
Termination Type :	M12
Probe Material :	Stainless Steel 316L
Cable Entry Size :	M20 4 contacts
Number Of Wires :	2
Accuracy :	±0,2%

Compact RTD Sensor

with fitting and transmitter M12 connector out



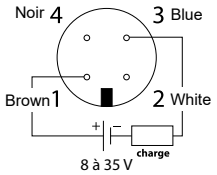
PROGRAMMABLE
4-20 mA ou Modbus
TOUT INOX



OPTIONS

- Calibration by comparison of a measuring Cofrac instrument
- Others threading
- Thermowell
- M12 Cable straight or angled output
- Software and cable : Ref : LOGICIEL960PRO USB/M12

WIRING DIAGRAM



Pt100 class 1/3 DIN, output 4-20 mA 2 wires

IP67 male M12 plug-in connector 4 contacts with polarization

316 L stainless steel protective tube, housing and process connection

Response time :	1,6s typical

Features of the integrated 4-20 mA transmitter

Plage d'entrée programmable

Accuracy :	±0.2% of full scale
Supply voltage :	8 to 35 VDC with reverse polarity protection
Power supply influence	±0.006 %/ V from 24V
Measurement range :	-200 à 650 °C
Process temperature limit :	-40 à +85 °C
Temperature influence :	±0.16 % of full scale / 25°C
Security :	current > 22 mA in case of failure

Integrated Modbus transmitter features

Accuracy :	±0,1 %
Supply voltage :	7 à 40 Vdc with polarity reversal protection
Measurement range :	-200 à +600 °C
Température d'utilisation au niveau de la carte :	-40 à +85 °C
Security :	Configurable sensor break value
Communication :	RS485 2 wire protocole ModBUS-RTU

High noise immunity (radio band rejection filter)
Supplied configured when ordered, can be reprogrammed by the user using software LOGICIEL960PRO USB/M12

Ref. DTR		"Lu"		Setting ranges of the converter		
Raccord 1/2" GAZ	12	80 mm	80	-50/+50	1	4-20 mA
Raccord 1/4" GAZ	14	100 mm	100	-50/+150	2	4-20 mA
		150 mm	150	-20/+80	3	4-20 mA
		200 mm	200	0/+50	4	4-20 mA
		250 mm	250	0/+100	5	4-20 mA
		300 mm	300	0/+120	6	4-20 mA
		500 mm	500	0/+150	7	4-20 mA
				New	485	Modbus