

TECHNICAL DATASHEET

PT100DXYZFL010

PT100 RTD SENSOR ACCORDING TO DIN 43760

SENSOR

Sensor	PT100 100Ω 0° C, alpha coefficient 3850 ppm/k
Precision	Class B – EN60751 – DIN43760
Nr of elements	1 sensor each probe
Isolation	Mylar glass fiber

TERMINAL

Terminal	AISI 316L
Terminal diameter and lenght	DIN-B Cup

HOUSING

Nut fixing (Female)	Y = 3 → Female 3/4" GAS
Nut fixing (Male)	Y = 4 → Male 1" GAS
Nut fixing (Male)	Y = 6 → Male 3/4" GAS
Conductors (3wires)	Z = 3 → CuSn 3x0,22 isolation silicon rubber, colours red-red-white
Conductors (4 wires)	Z = 4 → CuSn 4x0,22 isolation silicon rubber, colours red-red-white-white
Conductors (3+3 wires)	Z = 6 → 2 probes CuSn 3x0,22 isolation silicon rubber, colours red-red-white-white
Conductors (4+4 wires)	Z = 8 → 2 probes CuSn 4x0,22 isolation silicon rubber, colours red-red-white-white
Shield	Aluminium tape and security wire
Max temp head (PT100 socket)	X = 1 → PT100 Socket: 100° C
Max temp head (4-20 mA)	X = 2 → 4-20 mA 2 wire loop powered: 80° C

PROBE

Probe lenght	see drawing
Finishing	PT100 Socket - 4-20 mA 2 wire loop powered
Temperature range	-60°C ÷ +200°C

CONVERTER (if equipped)

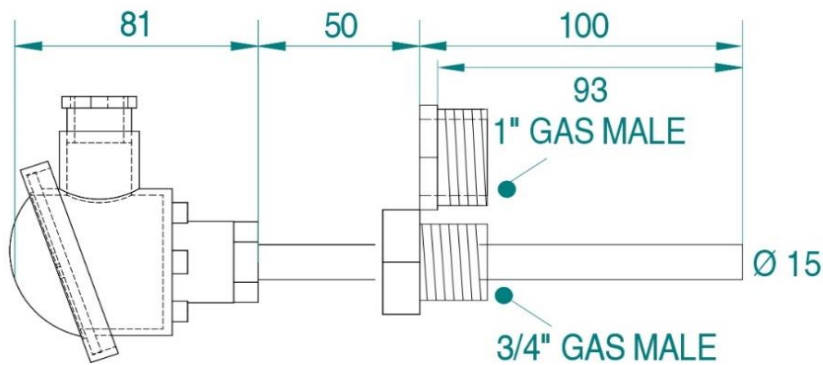
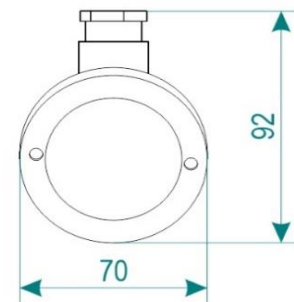
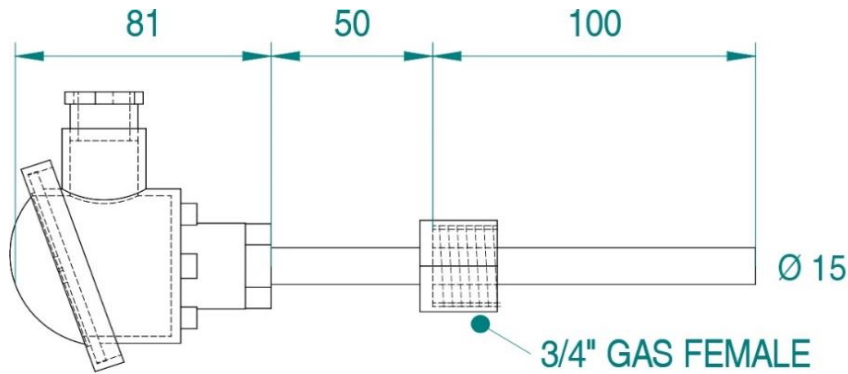
Power supply	5-30 V DC
Current output protection	30 mA
Transmission	2 wire loop powered transmitter for PT100 probes 4-20 mA
Precision class	0,10%
Max resolution	16 BIT
Default range temperature converter	-20° C - +150° C to 4-20 mA (other range on demand)

TESTS

Insulating test between capsule and copper wire 2,5 KV AC for 60"
Dimensional and visual control 100%
Impedance at room temperature 100%
Functional control 100%

NOTES

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CODE		PT100D X Y Z FL010	
X	FINISHING	1	PT100SOCKET
		2	4-20 mA
Y	NUT FIXING	3	3/4 GAS FEMALE
		4	1" GAS MALE
		6	3/4 GAS MALE
Z	NR OF WIRES	3	3 WIRES - 1 PROBE
		4	4 WIRES - 1 PROBE
		6	3+3 WIRES - 2 PROBES
		8	4+4 WIRES - 2 PROBES