PRTL

APPROVED TYPE APPROVAL SCHEME

ANALYSIS LTD

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TEMPERATURE

SENSOR

No: 17/00042

Version: PRTL.1..1.19-02-17

PRTL

APPLICATIONS

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APPLICATIONS

Marine and Industrial applications
Cooling water and refrigeration plants
Oil lubrication and hydraulic oil and refrigeration plants
Exhaust gas from diesel engines
Internal combustion engines, compressors and turbines

FEATURES

Reliable and accurate measurement with thermoresistance (RTD) or thermocouple element
Electrical connection with cable
Protection sheath material AISI304 or AISI316 with a wide range of diameters
Protection sheath: tube or Solid drilled
Shock and Vibration Resistance 13.2-100Hz at 0.7g and 25-100Hz at 4.0g

THERMORESISTANCE (RTD) FEATURES

Sensing element PT100 or PT1000 Class B DIN EN 60751
Two, three or four wires electrical connection, single or double element
Measuring temperature range -50C to 200C
Measuring temperature range -50C to 700C
Max ambient temperature 90C

THERMOCOUPLE FEATURES

Reliable and accurate measurement with thermocouple element, single or double element
Measuring temperature range 0C to 800C
Max ambient temperature 90C

Delta Velestino, 375 00 Magnesia, Greece tel. 0030 2425024248

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DRAWINGS

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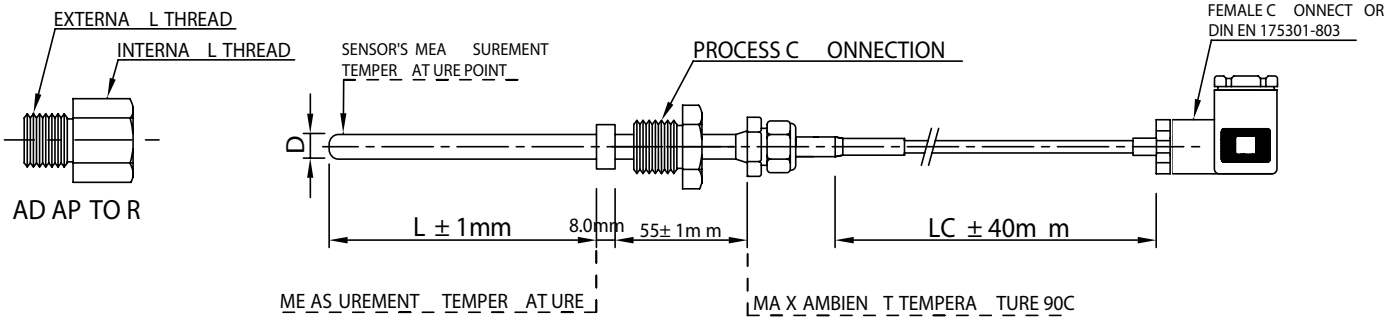
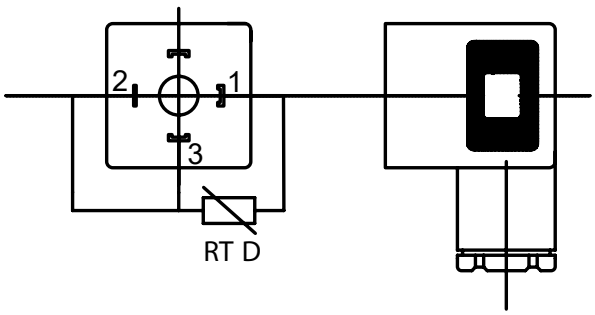
PRTL: Temperature sensor with cable



Thermoresistance (RTD). Female connector DIN EN 175301-0803



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ELECTRICAL CONNECTION

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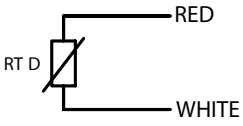
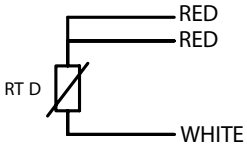
Thermoresistance. Cable Color code according to DIN EN 60751

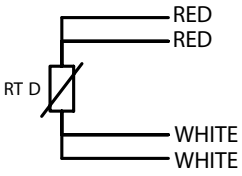
1 x RTD 2 wires



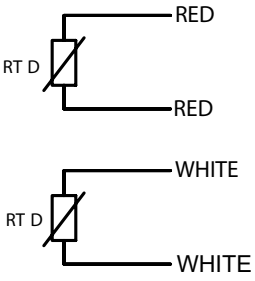
1 x RTD 3 wires



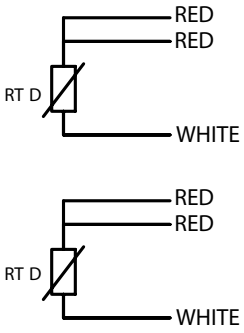
1 x RTD 4 wires



2 x RTD 2 wires

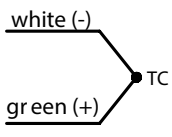


2 x RTD 3 wires

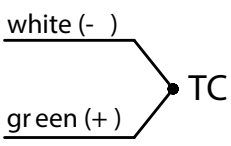


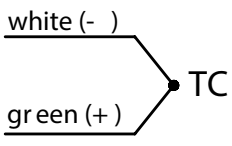
Thermocouple. Color code according to EN 60584-1

1xK (1xNiCr-NiAl)



2xK (2xNiCr-NiAl)





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ORDER CODE

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ORDER CODE FOR PRTL

SENSOR ELEMENT: THERMORESISTANCE (RTD) OR THERMOCOUPLE											
1xPT100 Class B - 2 Wires DIN EN 60751	1										
1xPT100 Class B - 3 Wires DIN EN 60751	2										
1xPT100 Class B - 4 Wires DIN EN 60751	3										
2xPT100 Class B - 4 Wires DIN EN 60751	4										
2xPT100 Class B - 6 Wires DIN EN 60751	5										
1xPT1000 Class B - 2 Wires DIN EN 60751	6										
1xPT1000 Class B - 3 Wires DIN EN 60751	7										
1xPT1000 Class B - 4 Wires DIN EN 60751	8										
2xPT1000 Class B - 4 Wires DIN EN 60751	9										
2xPT1000 Class B - 6 Wires DIN EN 60751	10										
1xTYPE K (NiCr-NiAl) Class 1 EN60584-1	1K										
2xTYPE K (NiCr-NiAl) Class 1 EN60584-1	2K										
PROTECTION SHEATH											
SOLID DRILLED (for D≥12mm)		SD									
TUBE		S									
TEMPERATURE RANGE											
-50C to 200C (element sensor RTD)			RL								
-50C to 700C (element sensor RTD)			RH								
0C to 800C (element sensor Thermocouple)			T								
LENGTH L[mm ±1]											
From 50mm to 250mm				---							
OTHER LENGTH L[mm] ON REQUEST				XXX							
PROTECTION SHEATH MATERIAL											
AISI 304					4						
AISI 316					6						
DIAMETER D[mm]											
8						8					
9.5						9.5					
10						10					
12						12					
15						15					
PROCESS CONNECTION											
G3/4" MALE							G34M				
G1/2" MALE							G12M				
M24x1.5 MALE							M24M				
G3/4" FEMALE							G34F				
G1/2" FEMALE							G12F				
M24x1.5 FEMALE							M24F				
OTHER PROCESS CONNECTION ON REQUEST							XXXX				
CABLE LENGTH LC[mm ±40]:											
From 500mm to 10.000mm								----			
OTHER CABLE LENGTH LC[mm] ON REQUEST								XXXX			
CABLE MATERIAL											
PTFE/PTFE/Screen (-60C to 260C)									PPS		
OTHER CABLE MATERIAL ON REQUEST									XXX		
ADAPTOR: EXTERNAL THREAD - INTERNAL THREAD											
WITHOUT ADAPTOR										0	
G1/2" - G1/2"										G12G12	
M24x1.5 - G1/2"										M24G12	
G3/4" - G1/2"										G34G12	
OTHER ADAPTOR ON REQUEST										XXXX	
FEMALE CONNECTOR DIN EN 175301-803											
YES											Y
NO											N

ORDERING EXAMPLE: PRTL-2-SD-RH-100-4-12-G34M-5-PPS-0-Y

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