

S81 Miniature Thermosensor

- Fast measuring resistance sensor
- Suitable for measurement of low pressure, low velocity fluid and short response time.
- Suitable for mounting in fixed surfaces and chambers.
- These resistance sensors are Pt 100, and the miniature sensors are insulated from the metal sheath and PTFE/PFA cable



Compressor / Pump / Motor

S81 Miniature Thermosensor

PERFORMANCE SPECIFICATIONS	
Sheath:	stainless steel AISI 316
Tip Ø Diameter:	3 or 3.2 mm
Tip L Length:	L=7.6mm or on request
Extension Cable:	PTFE/PFA, shielded or non-shielded
Sensor:	Single or Double, Pt 100 class A or B 1 x 3 wires or 2 x 3 wires according to EN 60751.
Measuring Range:	-50 to 260°C
Insulation Resistance:	≥100 MΩ, V ≤100 VDC per EN60701 (+15 °C to 35 °C)
Response Time:	T 0.5: 1.6s, T 0.9: 5.5s into the water.
Explosion Proof Type:	Ex ia IIC T6 can be provided upon request

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Ordering Code	Example:	S81 Mini	094	A	3	6P4	Lc50	A	3P	T	A	B	A	T	A	XCD1
Mode	S81 Mini Thermo - Sensor S81 - RTD "Mini"	S81 Mini														
According to Drawing																
X	Other															
094	S81-00-094 / Article code S81/094		094													
154	S81 00-154 / Article code S81/154															
155	S81 00-155 / Article code S81/155															
158	S81 00-158 / Article code S81/158															
163	S81 00-163 / Article code S81/163															
171	S81-00-171 / Article code S81/171															
172	S81-00-172 / Article code S81/172															
Execution																
A	Accuracy class A according to IEC 60751			A												
B	Accuracy class B according to IEC 60751															
Tip Diameter																
3	3.0 mm				3											
3P2	3.2 mm															
4	4.0 mm															
4P8	4.8 mm															
7	7.0 mm															
Tip Length L																
6P4	6.4 mm					6P4										
7	7.0 mm															
7P6	7.6 mm															
10	10 mm															
15	15 mm															
20	20 mm															
Cable Length																
Lc=50mm...	20000mm						Lc50									
L1=50mm...	10000mm															
L2=50mm...	20000mm															
Certificate																
-	None															
N	NEPSI															
A	ATEX							A								
X	IECEX															
Calibration report																
3P	Single 3 points								3P							
5P	Single 5 points															
3D	Double 3 points															
5D	Double 5 points															
Customer Article																
-	None															
T	E6Axxx (Example)									T						
H	Hxxx Lc x L1 mm (Example)															
Label Logo																
R	RUEGER															
A	ASHCROFT										A					
Electrical Circuit																
B	Pt100 Single 3 wires											B				
C	Pt100 Single 4 wires															
E	Pt100 Double 3 wires															
F	Pt100 Double 4 wires															
Transition																
-	None															
A	φ3.2x60mm												A			
B	φ6x40mm															
C	φ8x60mm															
Cable colour																
T	Transparent														T	
W	White															
B	Blue															
Cable Diameter																
A	φ2.5±0.2															A
B	φ2.6±0.2															
C	φ3.1±0.2															
D	φ4.6±0.2															
Options (If choose an option(s) must include an "X")																
T	Metal Tag Plate															
CD1	Conformity Certificate															CD1