




<p>TA1001 Smart Temperature Sensor Compact type for adaptor M12 socket Process connection Internal thread M18 x 1.5 for adaptor gold-plated contacts Switching output, analog output 4...20mA ;0...10V 7-segment LED display Measuring range -40...150°C/-40...303°F</p>	 <p>CE RoHS</p>
Application	Liquid and Gas
Electric design	DC PNP/NPN
Output	<p>N.C.  /N.C. </p> <p>Analog output (4...20mA);(0...10V)</p>
Operating voltage [V]	20...30 DC
Current rating [mA]	250
Short-circuit protection	Yes (non-latching)
Reverse polarity protection	Yes
Overload protection	Yes
Integrated watchdog	Yes
Voltage drop[V]	<2
Current consumption [mA]	<66
Analog output	4...20mA(Rmax:500Ohm);0...10V(Rmin:2000Ohm)
Pressure rating [bar]	300
Setting range	
Analog start , ASP[°C/°F]	-40...140 / -40...284
Analog end point , AEP[°C/°F]	-30...150 / -22...302
Set point, SP[°C/°F]	-39.5...150 / -39...302
Reset point, rP[°C/°F]	-40...149.5 / -40...301
In steps of [°C/°F]	0.5/1
Programming options	Hysteresis/Window;Normally Closed/Open;Min./Max.Memory Meset;°C Selectable;Adjustment up to 10K;Analog output Selectable and Scaled
Adjustment of the switch point	Programming pushbutton
Accuracy	
Switching output [K]	±(Pt 1000 + 0.2K)
Analog output [K]	±(Pt 1000 + 0.2K+ 0.4%)
Display[K]	±(Pt 1000 + 0.2K+1/2 Digit)
Resolution	
Switching output [K]	0.5
Analog output [K]	0.125
Display [K]	0.5
Temperature drift(/10K)	0.1
Power-on delay time [s]	1.5
Measuring element [ms]	300
Pressure rating [bar]	300
Operating temperature [°C]	-25°C...80°C
Storage temperature [°C]	-40°C...100°C

Protection classification	IP67
Dimension	
Insulation resistance [MΩ]	>100 / 500V DC
Shock resistance [g]	50
Vibration resistance [g]	20
Housing material	Stainless steel(S304) , Aluminum (Al)
Materials (wetted parts)	Stainless steel(S304)
Function display Switching status LED	Red LED
Display	7-segment LED display
Connection	M12 connector; gold-plated contacts
Wiring	<p>Core color</p>
Programming of the output function Hno=hysteresis/N.O. Hnc=hysteresis/N.C. Fno=window function /N.O. Fnc=window function /N.C.	



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