

TA1009 Electronic Temperature Sensors M12 socket Connection: Internal thread M18 x 1.5 Programmable Switching + Analogue output 3 digit display Probe length L=200mm Sensing range -40...150°C -40...302°F	 CE RoHS		
Applications	Liquid and gas		
Output	OUT1	PNP/NPN Programmable	Hno= hysteresis / NO
			Hnc= hysteresis / NC
			Fno= window function / NO
			Fnc= window function / NC
	OUT2	PNP/NPN Programmable	Hno= hysteresis / NO
			Hnc= hysteresis / NC
			Fno= window function / NO
			Fnc= window function / NC
dES= diagnosis output / NC			
Current consumption[mA]	<50		
Supply voltage[V]	18...36 DC		
Short-circuit protection	Pulsed		
Reverse polarity protection	yes		
Overload protection	yes		
Watchdog	yes		
Voltage drop[V]	<2		
Setting range			
Analogue start point ASP[°C/°F]	-40...140 / -40...284		
Analogue end point AEP[°C/°F]	-30...150 / -22...302		
Switching point SP[°C/°F]	-39.5...150 / -39...302		
Reset point rP[°C/°F]	-40...149.5 / -40...301		
In steps of	0.5/1		
Programming options	Hysteresis range / Window function, NO / NC		
	Min/Max, Factory reset, °C/°F		
Adjustment of switching point	via pushbuttons		
Accuracy			
Switching accuracy[°C/°F]	±0.2/±0.36		
Analogue accuracy[°C/°F]	±(0.2/0.36+0.4% Measuring range)		
Display[°C/°F]	±(0.2/0.36+1/2)		
Switching output [°C/°F]	0.5/1		

Analogue output[°C/°F]	0.125/0.23
Display[°C/°F]	0.5/1
Temperature drift(/10K)	0.1
Startup delay time[s]	1.5
Measuring/Display cycle[ms]	200
Medium temperature [°C/°F]	-40...150/-40...302
Ambient temperature [°C/°F]	-25...80/-13...176
Storage temperature[°C/°F]	-40...100/-40...212
Insulation resistance[MΩ]	>100 (500V DC)
Protection/Enclosure Rating	IP68
Dimensions[mm]	
ESD[KV]	III
EFT[KV]	III
Walkie talkie experiment[M]	1
Shock resistance[g]	50
Vibration resistance[g]	20
Housing material	Stainless steel 304
Probe material/Wetted Parts	Stainless steel 316L
Function LED/output status	Red LED
Connection	M12 socket
Wiring	
Core color	
Programming of the output function:	
Hno= hysteresis / NO	
Hnc= hysteresis / NC	
Fno= window function / NO	
Fnc= window function / NC	