

Data sheet

Temperature sensor

AKS 12



Pt 1000 temperature sensor.

The sensor can be used for temperature logging on monitoring in conjunction with EKC controllers in the following areas:

- Refrigeration
- Air conditioning
- Heating

The sensor comes adjusted and complies with the requirements to tolerance in EN 60751, class B.

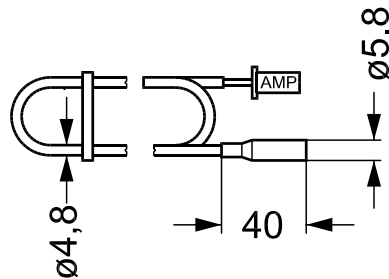
Features

- Temperature range -40 – 100 °C
- The sensors are adjusted and comply with the requirements to tolerance in EN 60751, class B

Technical data

Nominal resistance	1000 ohm at 0 °C
Measuring accuracy	Class B
Temperature range	-40 – 100 °C
Cable material	PVC, 2 x 0.22 mm ²
Sensor tube	18/8 stainless steel
Time constant	15 seconds
Enclosure	IP67
AMP-Plug (selected sensors only)	AMP ital mod 2, housing 280 358, Crimp contact 280 708-2

R (Typ.) [Ohm]	Temp. [°C]	Temp. [°F]
1117	30	86
1078	20	68
1039	10	50
1000	0	32
961	-10	14
922	-20	-4
882	-30	-22



Cabel resistance @ 20 °C:

PVC 2 x 0.22 mm² (Resistance per conductor R1 = 78.2 Ohm/km)

The constant conductor resistance: R = 2 x R1

The total resistance in the sensor circuit is therefore: R + RTD

Ordering

Type	Cable	Packing Qty.	Code no.
AKS 12	1.5 m	1	084N0036
		30	084N0035
	3.5 m	30	084N0039
	5.5 m	30	084N0038
		1	084N0046
	5.5 m with AMP-Plug	30	084N0037
		1	084N0045
	8.5 m	30	084N0041