

## NTC probes AS Part number 89750180



- Direct connection with no converter on analog input
- Easy-to-use and low-cost temperature control solution
- Fields of application : HVAC, compressors, geothermal systems, swimming pools, fountains
- Analog input configured as a potentiometer via the NTC functions in the M3 Soft (minimum AC 5)

### Part numbers

Type	Description	Ohmic value	Measurement range
89750180 AS	NTC1 probe (batch of 10) for Millenium 3 (24 V DC, $\pm 10\%$ )	10 k $\Omega$ @ 25 °C	-25 $\rightarrow$ +85 °C

### Specifications

#### General characteristics

#### Environmental characteristics

Operating temperature	-25 $\rightarrow$ +85 °C	-25 $\rightarrow$ +85 °C	-25 $\rightarrow$ +120 °C	-20 $\rightarrow$ +105 °C	-40 $\rightarrow$ +200 °C
Storage temperature	-30 $\rightarrow$ +100 °C	-30 $\rightarrow$ +100 °C	-40 $\rightarrow$ +180 °C	-40 $\rightarrow$ +105 °C	-40 $\rightarrow$ +200 °C
Accuracy	-25 $\rightarrow$ +40 °C : $\leq \pm 0,8$ °C (repeatability $\leq \pm 0,5$ °C) +40 $\rightarrow$ +70 °C : $\leq \pm 2$ °C (repeatability $\leq \pm 1$ °C) +70 $\rightarrow$ +85 °C : $\leq \pm 3$ °C (repeatability $\leq \pm 2$ °C)	-25 $\rightarrow$ +40 °C : $\leq \pm 0,8$ °C (repeatability $\leq \pm 0,5$ °C) +40 $\rightarrow$ +50 °C : $\pm \pm 1,2$ °C (repeatability $\leq \pm 1$ °C) +50 $\rightarrow$ +60 °C : $\pm \pm 1,4$ °C (repeatability $\leq \pm 1,4$ °C) +60 $\rightarrow$ +70 °C : $\pm \pm 2$ °C (repeatability $\leq \pm 2$ °C) +70 °C $\rightarrow$ +85 : $\pm \pm 3$ °C (repeatability $\leq \pm 2$ °C)	-35 $\rightarrow$ +40 °C : $\leq \pm 0,8$ °C (repeatability $\leq \pm 0,5$ °C) +40 $\rightarrow$ +70 °C : $\leq \pm 2$ °C (repeatability $\leq \pm 1$ °C) +70 $\rightarrow$ +120 °C : $\leq \pm 3$ °C (repeatability $\leq \pm 2$ °C)	-20 $\rightarrow$ +40 °C : $\leq \pm 0,8$ °C (repeatability $\leq \pm 0,5$ °C) +40 $\rightarrow$ +70 °C : $\leq \pm 2$ °C (repeatability $\leq \pm 1$ °C) +70 $\rightarrow$ +105 °C : $\leq \pm 3$ °C (repeatability $\leq \pm 2$ °C)	0 $\rightarrow$ +40 °C : $\leq \pm 3$ °C (repeatability $\leq \pm 1$ °C) +40 °C $\rightarrow$ +140 °C : $\leq \pm 2$ °C (repeatability $\leq \pm 1$ °C) +140 °C $\rightarrow$ +180 °C : $\leq \pm 3$ °C (repeatability $\leq \pm 1$ °C)

#### Mechanical characteristics

Material	PVC	AS	Inox	POM (polyoxymethylene)	Silicone
Cable	PVC	2 wires	PVC (105 °C max.)	PVC (105 °C max.)	Silicone (200 °C max.)
Cable length	3000 mm	600 mm	3000 mm	3000 mm	800 mm
Protection rating	IP67	-	IP64	IP67	IP64
Isolation class	-	-	1	2	1
Dielectric strength according to IEC 335	-	1000 V AC / 1 mn	1250 V AC / 1 mn	-	2000 V AC / 1 mn
Dimensions	Threading 1/2" Length 68 mm	5 x 6 mm Length 15 mm	$\varnothing 4,8$ Length 30 mm	$\varnothing 6$ mm Length 30 mm	$\varnothing 5$ Length 30 mm

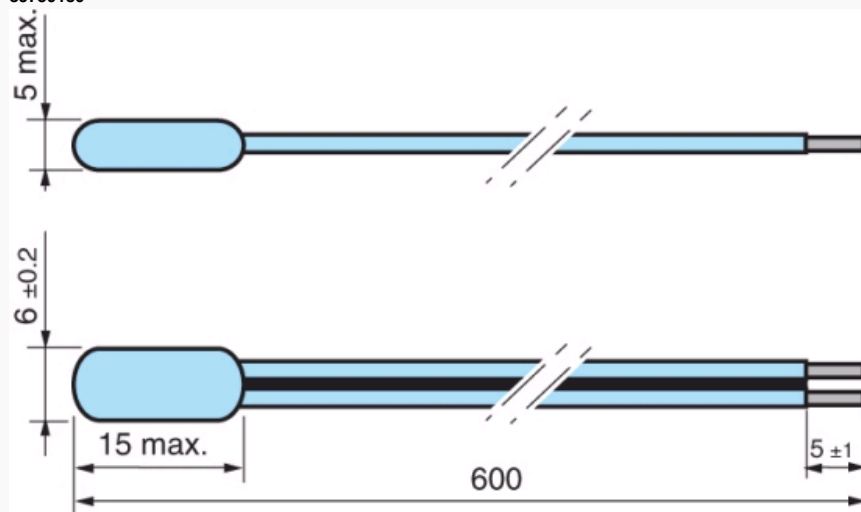
#### Comments

#### Accessories

Accessories	Operating temperature	Operating pressure	Code
Copper protective sleeve	-20 $\rightarrow$ +100 °C	10 bar	89750146
316 stainless steel protective sleeve	-20 $\rightarrow$ +400 °C	16 bar	89750147

#### Dimensions (mm)

89750180



## Connections

CA 89750183


 24V +/- 10%
