

Millenium 3 Custom accessories

→ CTN probe

- Direct connection on analog input without converter
- Easy solution for controlling temperature
- Application-specific examples :
 - Swimming pool
 - Fountain
 - HVAC



Part numbers

Type	Designation	Ohm value	range	Code
AS	CTN probe PVC for Millenium 3 (24VDC, ±10%)	10 kΩ @ 25°C	-25°C → + 85°C	89750174

General characteristics

Environmental characteristics

Operating temperature	-25 → +85 °C
Storage temperature	-30 → +100 °C
Accuracy	-25°C → +40°C : $\leq \pm 0.8^\circ\text{C}$ (repetability $\leq \pm 0,5^\circ\text{C}$) +40°C → +70°C : $\leq \pm 2^\circ\text{C}$ (repetability $\leq \pm 1^\circ\text{C}$) +70°C → +85°C : $\leq \pm 3^\circ\text{C}$ (repetability $\leq \pm 2^\circ\text{C}$)

Mechanical characteristics

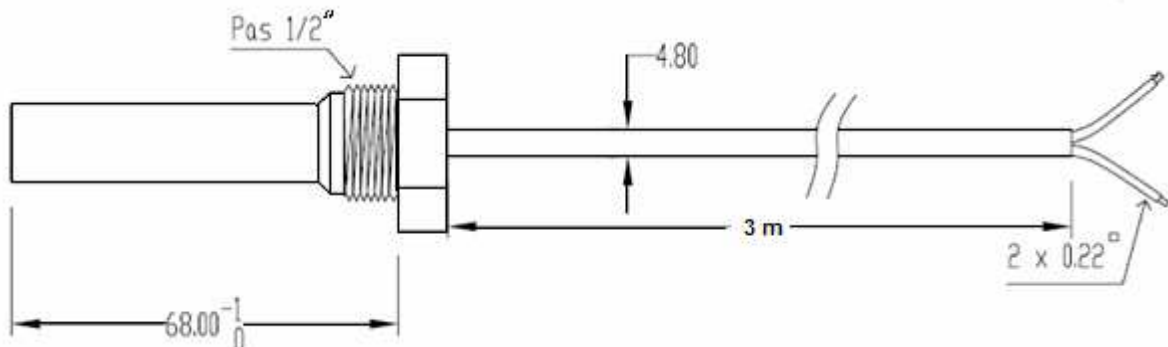
Cable	PVC
Cable lenght	3 m

Comments

Connected with the « potentiometer » parameter of an analogue input via Custom function CTN2 (CLSM3 AC5 Software p/n : 88970111).
Sensors available only with Custom range (88974XXX, NB, NBR)

Dimensions (mm)

89750174



Millenium 3 Custom accessories

→ CTN probe

- Direct connection on analog input without converter
- Easy solution for controlling temperature
- Application-specific examples :
 - HVAC
 - Compressor
 - Geothermal



Part numbers

Type	Designation	Ohm value	range	Code
AS	CTN probe stainless 305 for Millenium 3 (24VDC, ±10%)	10 kΩ @ 25°C	-35°C → + 120°C	89750182

General characteristics

Environmental characteristics

Operating temperature	-40 → +180 °C
Storage temperature	-40 → +180 °C
Accuracy	-35°C → +40°C : ≤ ± 0.8°C (repetability ≤ ± 0.5°C) +40°C → +70°C : ≤ ± 2°C (repetability ≤ ± 1°C) +70°C → +120°C : ≤ ± 3°C (repetability ≤ ± 2°C)

Mechanical characteristics

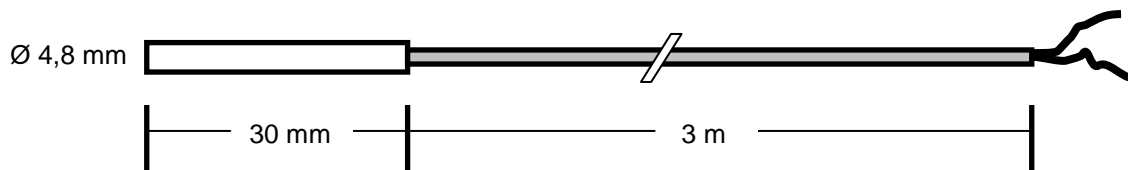
Cable	Silicone (180°C max)
Cable lenght	3 m
Isolation class	I
Dielectric strength (IEC 335)	1250 Vac / 1mn

Comments

Connected with the « potentiometer » parameter of an analogue input via Custom function CTN2 (CLSM3 AC5 Software p/n : 88970111).
Sensors available only with Custom range (88974XXX, NB, NBR)

Dimensions (mm)

89750182



Millenium 3 Custom accessories

→ CTN probe

- Direct connection on analog input without converter
- Easy solution for controlling temperature
- Application-specific examples :
 - HVAC
 - Compressor
 - Geothermal
 - Building



Part numbers

Type	Designation	Ohm value	range	Code
AS	CTN probe POM (batch of 25) for Millenium 3 (24VDC, ±10%)	10 kΩ @ 25°C	-20°C → + 105°C	89750185

General characteristics

Environmental characteristics

Operating temperature	-20 → +105 °C
Storage temperature	-40 → +105 °C
Accuracy	-20°C → +40°C : ≤ ± 0.8°C (repetability ≤ ± 0.5°C) +40°C → +70°C : ≤ ± 2°C (repetability ≤ ± 1°C) +70°C → +105°C : ≤ ± 3°C (repetability ≤ ± 2°C)

Mechanical characteristics

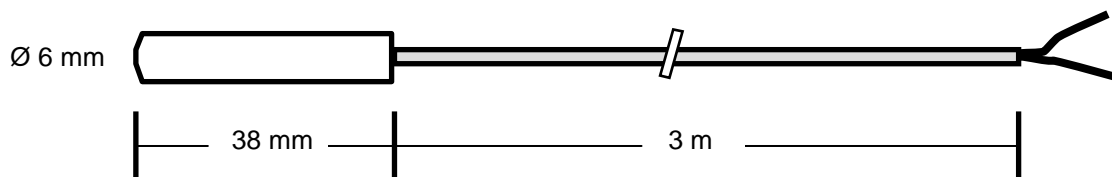
Cable	PVC (105°C max)
Cable length	3 m
Isolation class	2

Comments

Connected with the « potentiometer » parameter of an analogue input via Custom function CTN2 (CLSM3 AC5 Software p/n : 88970111).
Sensors available only with Custom range (88974XXX, NB, NBR)

Dimensions (mm)

89750185



Millenium 3 Custom accessories

→ CTN probe

- Direct connection on analog input without converter
- Easy solution for controlling temperature
- Application-specific examples :
 - HVAC
 - Compressor
 - Geothermal



Part numbers

Type	Designation	Ohm value	range	Code
AS	CTN probe silicone for Millenium 3 (24VDC, ±10%)	100 kΩ @ 25°C 3%	0°C → + 180°C	89750186

General characteristics

Environmental characteristics

Operating temperature	-40 → +200 °C
Storage temperature	-40 → +200 °C
Accuracy	0°C → +40°C : ≤ ± 3°C (repetability ≤ ± 1°C) +40°C → +140°C : ≤ ± 2°C (repetability ≤ ± 1°C) +140°C → +180°C : ≤ ± 3°C (repetability ≤ ± 1°C)

Mechanical characteristics

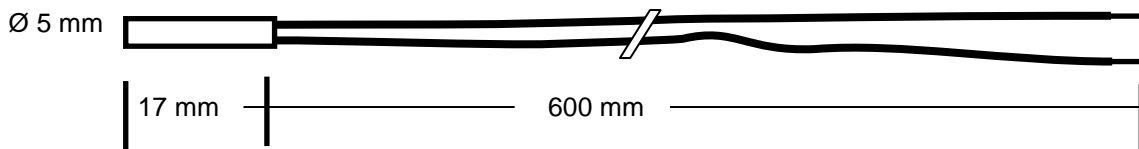
Cable	Silicone (200°C max)
Cable lenght	60 cm
Isolation class	1

Comments

Connected with the « potentiometer » parameter of an analogue input via Custom function CTN3 (CLSM3 AC6 Software p/n : 88970111).
 Sensors available only with Custom range (88974XXX, NB, NBR)

Dimensions (mm)

89750186



Millenium 3 Custom accessories

→ LDR probe

- Direct connection on analog input without converter
- Low-cost solution for light sensing application
- Application-specific examples :
 - Lighting control
 - Energy economy
 - Building



Part numbers

Type	Designation	range	Code
AS	LDR probe for Millenium 3, LDR1 (24VDC, ±10%)	10 Lux → 3000 Lux	89750183

General characteristics

Environmental characteristics

Accuracy	< 10 % of full scall
Temperature Coefficient	0.5 %/°C
Peak spectral response	600 +/-20 nm
Operating temperature	-20 → +70 °C
Storage temperature	-20 → +70 °C

Mechanical characteristics

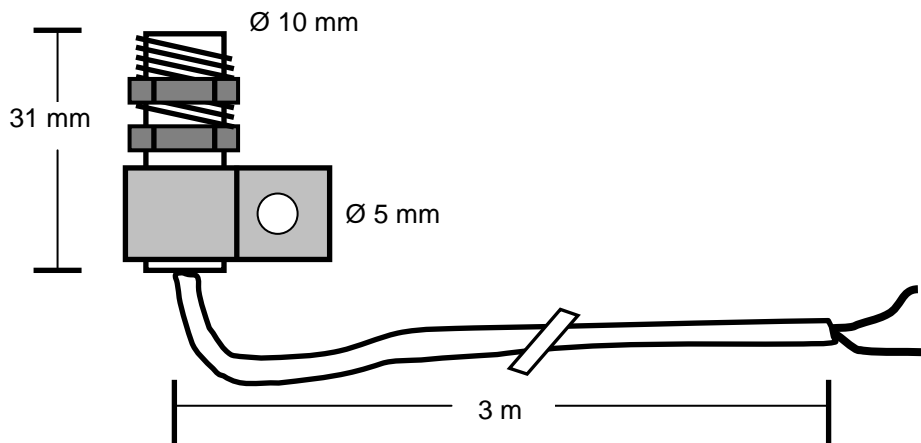
Cable length	3 m
Wall fixation	Screw diameter 5 mm
Fixation across a wall	Drilling diameter 10 mm, thickness 9 mm max

Comments

Connected with the « potentiometer » parameter of an analogue input via Custom function LUX-I (CLSM3 AC6 Software p/n : 88970111).
Sensors available only with Custom range (88974XXX, NB, NBR)

Dimensions (mm)

89750183





→ NTC-sonde

- Directe aansluiting (zonder converter) op analoge ingang van een Millennium 3 Custom
- Goedkope oplossing voor temperatuurcontrole
- Toepassingsgebieden:
 - HVAC
 - Compressor
 - Geothermie



NTC sonde

Referenties

Typen	Omschrijving	Ohmse waarde	Meetbereik	Referentie
AS	NTC-sensor (set van 10) voor Millennium 3 (24 V $\overline{\text{---}}$, $\pm 10\%$)	10 k Ω @ 25°C	-25 \rightarrow +85° C	89750180
	NTC-sensor (set van 100) voor Millennium 3 (24 V $\overline{\text{---}}$, $\pm 10\%$)	10 k Ω @ 25°C	-25 \rightarrow +85° C	89750181

Toebehoren

Toebehoren	Gebruikstemperatuur	Werkdruk	Referentie
Beschermhuls van koper	-20 \rightarrow +100°C	10 bar	89750146
Beschermhuls van roestvrijstaal 316	-20 \rightarrow +400°C	16 bar	89750147

Algemene eigenschappen

Omgevingseigenschappen

Gebruikstemperatuur	-25 \rightarrow +85 °C
Opslagtemperatuur	-30 \rightarrow +100 °C
Nauwkeurigheid	-25 °C \Rightarrow +40 °C: = $\pm 0,8$ °C (herhaalbaarheid = $\pm 0,5$ °C) +40 °C \Rightarrow +50 °C: = $\pm 1,2$ °C (herhaalbaarheid = ± 1 °C) +50 °C \Rightarrow +60 °C: = $\pm 1,4$ °C (herhaalbaarheid = $\pm 1,4$ °C) +60 °C \Rightarrow +70 °C: = ± 2 °C (herhaalbaarheid = ± 2 °C) +70 °C \Rightarrow +85 °C: = ± 3 °C (herhaalbaarheid = ± 2 °C)

Mechanische eigenschappen

Kabel	-30 \rightarrow +100 °C, 2-draads, identieke kleur
Lengte van de kabel	60 cm

Opmerking

Analoge ingang geconfigureerd als potentiometeringang via de specifieke functie (NTC1 in de software M3 SOFT ref.: 88970111).
 Sondes alleen verkrijgbaar op het Custom-gamma (88974XXX, NB, NBR)

Afmetingen (mm)

89750180

