



Multitechnology Know-how

# Temperature sensors for Millenium



- ▶ Building automation
- ▶ Heating/Air conditioning
- ▶ Machinery

**More**  
than a standard



# ▶ Temperature sensors for Millenium



## Temperature control made easier

Crouzet is launching a new range of temperature sensors with built-in converter for use with Millenium logic controllers.

Temperature control applications, both in industry and in building automation, will now be able to take advantage of the ease of use which has been the key to Millenium's success.



**Ventilation duct**  
Controlling temperature levels in ventilation or heating ducts



## Outdoor

Used to anticipate the phenomenon of temperature lag caused by external temperature variations (energy savings)

Eg.: underfloor heating, air conditioning, etc.



#### **Remote/Submersible probe**

Adapted for controlling the temperature of fluids in ovens, swimming pools, tanks etc, with the addition of a copper or stainless steel protective sleeve

#### **Zone**

Management of several heating zones in households or service areas (council offices, hospitals, hotels, etc.)

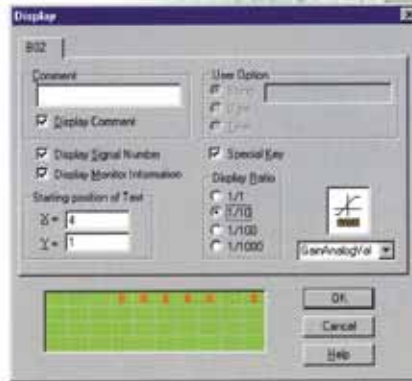
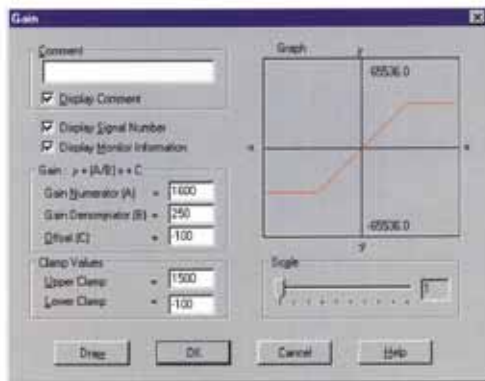
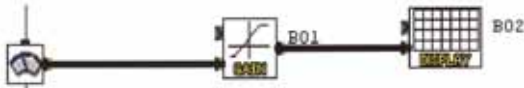


## "All-in-one" solutions

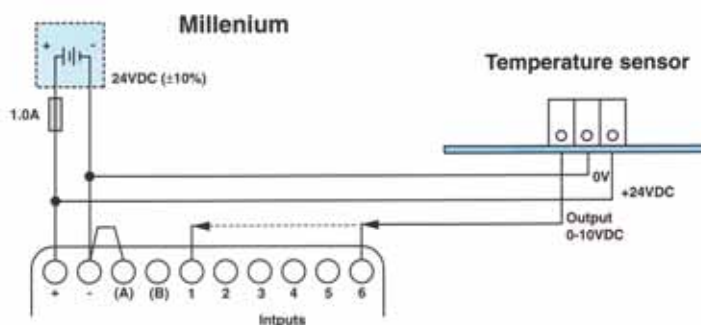
Crouzet temperature sensors are specially designed for use with the logic controller. They send analogue signals of between 0 and 10 V which are fully compatible with Millenium inputs. Integrated function blocks are used to activate On/Off outputs according to setpoint values and to display the temperature value in real time.



## Programming example



## Connection example



# Temperature sensors

## Technical specifications

Supply voltage	24 VDC ( $\pm 10\%$ )
Output	0 $\rightarrow$ 10 VDC
Temperature coefficients	
Derating	0.01% / °C of full scale
Offset	1.5 mV / °C

Ambient temperature	-10 $\rightarrow$ +60°C
Ambient humidity	5 $\rightarrow$ 95% RH
Casing material	Self-extinguishing

# Temperature sensors

- Built-in converter: 0-10V DC output
- Applications: Industrial, Services

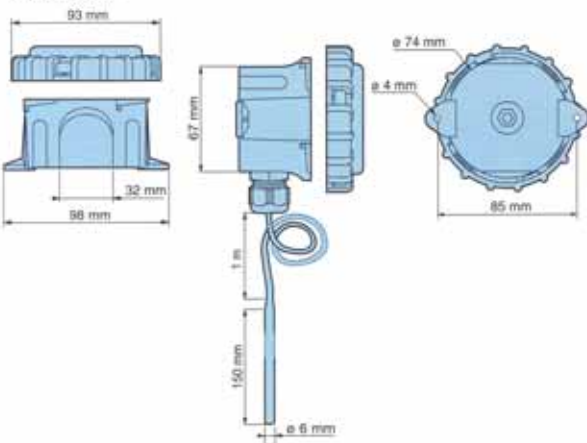


Types	Range	Accuracy	Protection	Part numbers
Zone	-10 $\rightarrow$ +40°C	-0.2°C + 1.2°C (-10 $\rightarrow$ +40°C)	IP 30 casing	89 750 150
Ventilation duct	-10 $\rightarrow$ +60°C	-0.2°C + 1.9°C (-10 $\rightarrow$ +60°C)	IP 65 casing IP 30 probe	89 750 151
Outdoor	-10 $\rightarrow$ +40°C	-0.2°C + 1.2°C (-10 $\rightarrow$ +40°C)	IP 65 casing	89 750 152
Remote/submersible probe	-10 $\rightarrow$ +150°C	-0.2°C + 1.9°C (-10 $\rightarrow$ +150°C)	IP 65 casing IP 68 probe	89 750 153

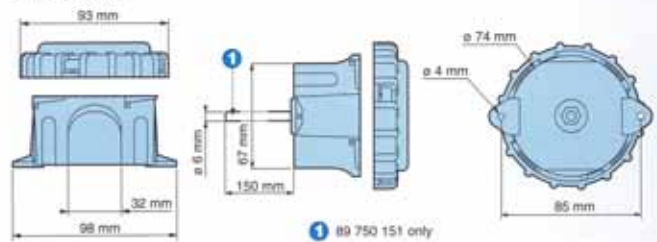
Accessories	Code
Copper protective sleeve for 89 750 153	89 750 146
Stainless steel (316) protective sleeve for 89 750 153	89 750 147
Heat transfer compound	18 372 112

## Connection/Dimensions

89 750 153

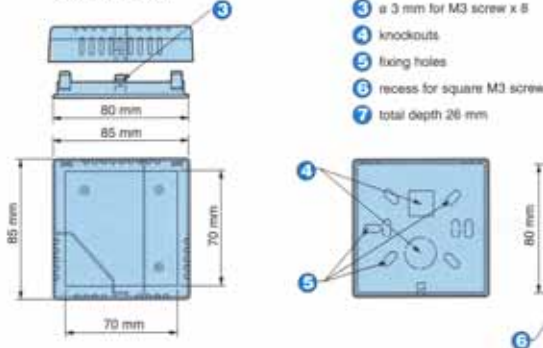


89 750 152



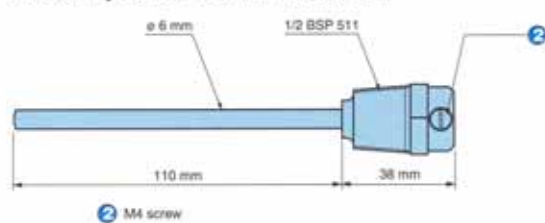
1 89 750 151 only

89 750 150



- 3  $\varnothing$  3 mm for M3 screw x 8
- 4 knockouts
- 5 fixing holes
- 6 recess for square M3 screw
- 7 total depth 26 mm

Accessory 89 750 146 and 89 750 147



2 M4 screw

Standard products, stocked

Part number

89 750 150



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12 sales outlets

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3 production sites  
400 sales outlets

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3 agencies  
116 sales outlets

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1 production site  
35 sales outlets

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1 production site  
92 sales outlets

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Microswitches and Motors**  
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406 sales outlets

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480 sales outlets

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