

DN-189AT

Thermometer Pt100 Thermocouple J, K, T



180 mm high digits. Industrial environment
Readable from up to 90 m
1 or 2 displaying sides.

Application field

Display the temperature value within the range allowed by the selected probe. It supports the use of Pt100 probes and type J, K, or T thermocouples. The result can be displayed in degrees Celsius or Fahrenheit with resolutions of 1 degree or 0.1 degree. It is also possible to add an offset value to the measured reading to compensate the result

Ethernet option

The Ethernet option lets you to program the parameters or to read the display value remotely through the embedded web page.

Dual relay output option

Two programmable relay output are available. Selectable HI or LO . Delay time or hysteresis adjustable.

Option to display the measures units

Optionally, they can be supplied with a fixed display of the measurement units (°C or °F), either in white vinyl or formed by LEDs.

General specification	
Power supply	100 to 240 VAC 50 to 60Hz. Option 24Vdc
Case material	Aluminum extruded
Mounting	Wall or suspension
Display	Color red
Frontal	Methacrylate
Back	Black Methacrylate
Operating temperature	-20° to 60°C
Protection level	IP41 (option IP65) (indoor use)

Analog/digital converter	
Conversion technique	Sigma-Delta
Conversion resolution	16 bit
Conversion rate	25/s

Digits	Resolution	Pt100 °C	TC "J" °C	TC "K" °C	TC "T" °C	Overflow	Sensor break
3	0.1°	-19.9 / +99.9	-19.9 / +99.9	-19.9 / +99.9	-19.9 / +99.9	-OE /OuE	E1
3	1°	-199 / +800	-50 / +760	-50 / +999	-160 / +400	-OE /OuE	
4	0.1°	-199.9 / +400.0	-50.0 / +760.0	-50.0 / +999.9	-160.0 / +400.0	-OuE /OuE	
4	1°	-199 / +800	-50 / +760	-50 / +1370	-160 / +400	-OuE /OuE	
5	0.1°	-200.0 / +400.0	-50.0 / +760.0	-50.0 / +1370.0	-160.0 / +400.0	-OuE /OuE	
5	1°	-200 / +800	-50 / +760	-50 / +1370	-160 / +400	-OuE /OuE	

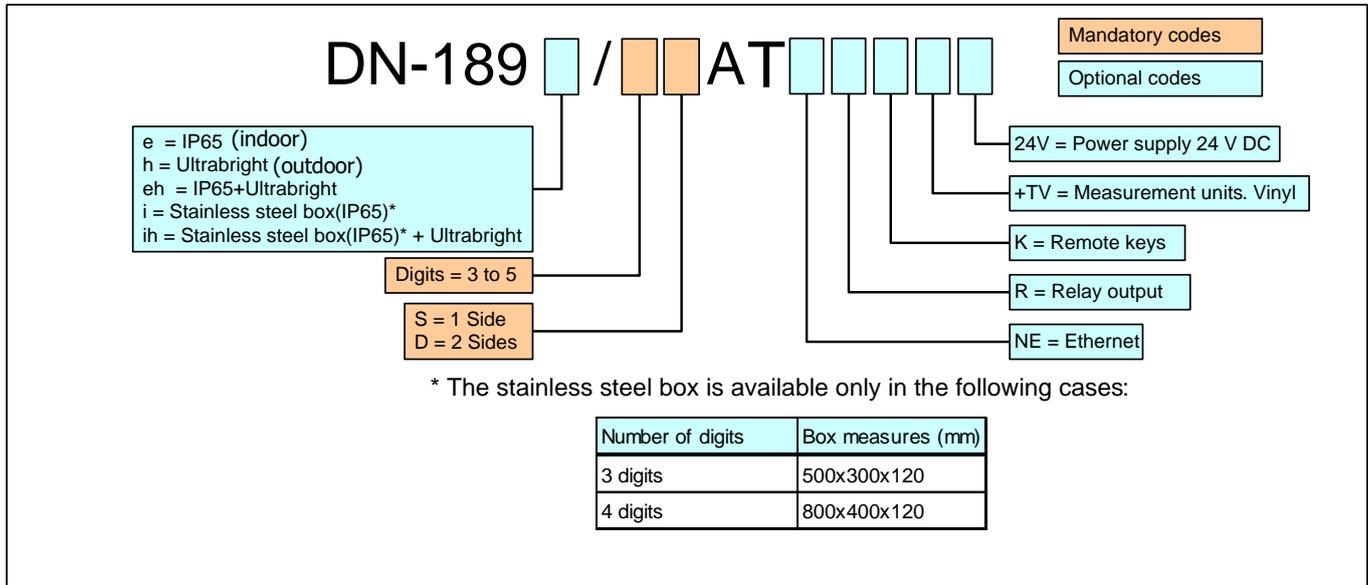
Digits	Resolution	Pt100 °F	TC "J" °F	TC "K" °F	TC "T" °F	Overflow	Sensor break
3	0.1°	-19.9 / +99.9	-19.9 / +99.9	-19.9 / +99.9	-19.9 / +99.9	-OE /OuE	E1
3	1°	-199 / +999	-58 / +999	-58 / +999	-199 / +752	-OE /OuE	
4	0.1°	-199.9 / +752.0	-58.0 / +999.9	-58.0 / +999.9	-199.9 / +752.0	-OuE /OuE	
4	1°	-328 / +1472	-58 / +1400	-58 / +2498	-256 / +752	-OuE /OuE	
5	0.1°	-328.0 / +752.0	-58.0 / +1400.0	-58.0 / +2498.0	-256.0 / +752.0	-OuE /OuE	
5	1°	-328 / +1472	-58 / +1400	-58 / +2498	-256 / +752	-OuE /OuE	

Dimensions

Digits	3	4	5
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DN-189	High = 251mm	Depth = 120mm	
Width in mm	500	660	820
Width + Text option	820	980	1140

Reference composition



EXAMPLES:

DN-189/4DAT

Four-digit, double-sided display unit from the DN-189 series.
Thermometer

DN-189e/3SAT

Three-digit single-sided display unit from the DN-189 series.
Protection rating: IP65.

DN189e/5SAT+TV °C

Five-digits, single-sided display unit from the DN-189 series.
Thermometer. Vinyl text option. Text: °C.
Protection rating: IP65