

# DN-109AT

## Thermometer Pt100

## Thermocouple J, K, T



57 mm high digits. Industrial environment  
Readable from up to 25 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) <b>(indoor use)</b>

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

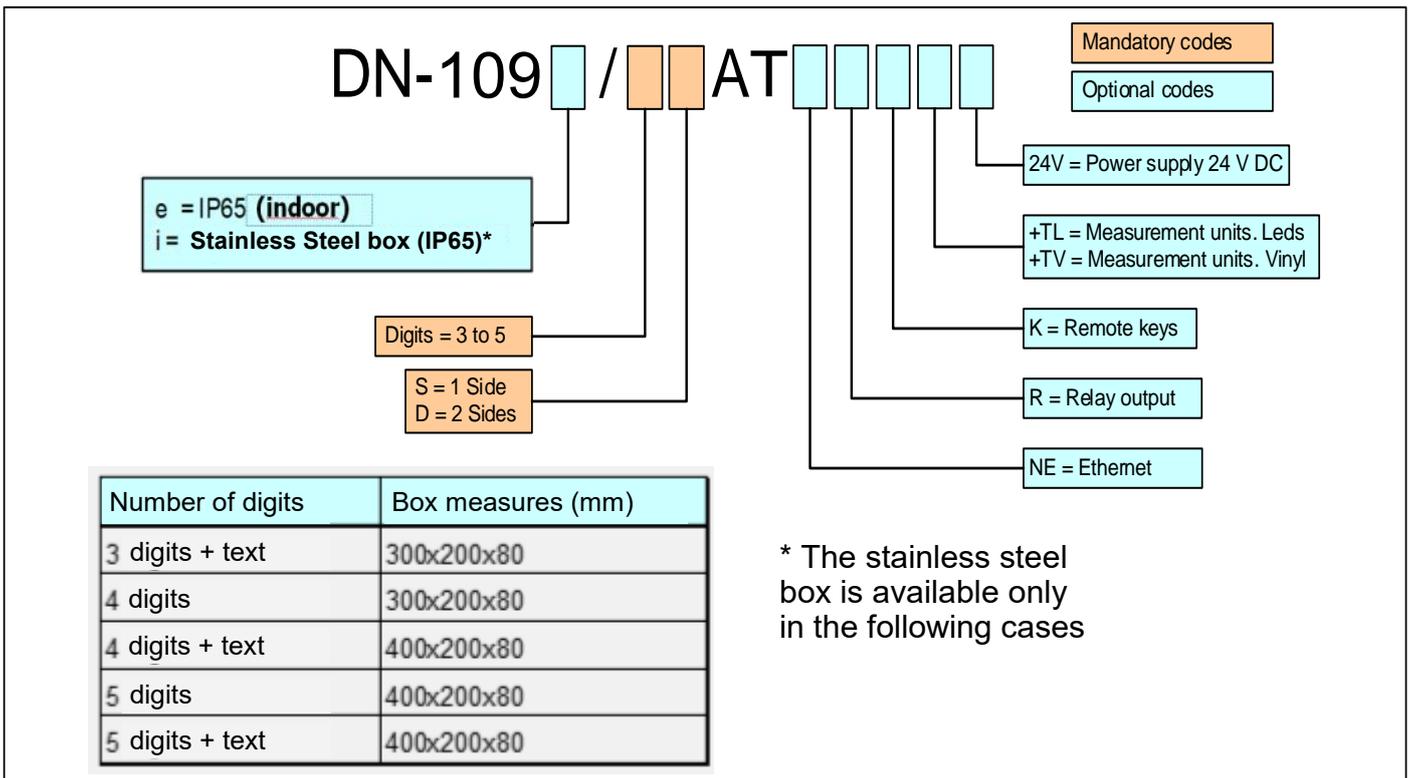
Digits	Resolution	Pt100 °C	TC "J" °C	TC "K" °C	TC "T" °C	Overflow	Sensor break
3	0.1°	-19.9 / +99.9	-19.9 / +99.9	-19.9 / +99.9	-19.9 / +99.9	-OE /OuE	E1
3	1°	-199 / +800	-50 / +760	-50 / +999	-160 / +400	-OE /OuE	
4	0.1°	-199.9 / +400.0	-50.0 / +760.0	-50.0 / +999.9	-160.0 / +400.0	-OuE /OuE	
4	1°	-199 / +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
<b>DN-109</b>	<b>High = 122mm</b>		<b>Depth = 120mm</b>
Width in mm	288	288	288
Width + Text option	288	336	382

## Reference composition



### EXAMPLES:

#### DN-109/4DAT

Double-sided 4-digit thermometer, DN109 series .

#### DN-109e/5SAT+TL °F

Single sided 5 digits thermometer DN-109 series.

Text leds option. Text: °F.

Protection degree IP65. (indoor use)