

# DN-189AP

## Analog input.

## Process control.



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

## Application field

They are most often used to show any instrument analog output voltage in the range  $\pm 10V$  (0-10V, 0-5V, 0-1V, 1-5V), or analog output current in the range  $\pm 20mA$  (0-1mA, 0-5mA, 0-20mA, 4-20mA). They are easily configurable with 3 pushbuttons or with a PC if the serial line option is present. But, because they are scalable, they can be used to show any physical measurement in your process.

All equipment is factory completely calibrated with data stored in non erasable memory without use of adjustment potentiometers

## 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

Several measure units can be permanently displayed: Kg, Tm, °C, mV, m/s, l/s, or any other unit, as the consumer desires, up to three characters.

## General specification

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

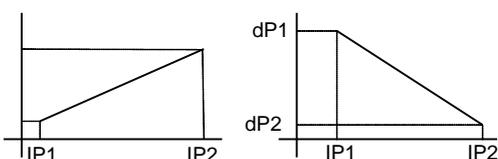
## Display Format

	3 Digits	4 Digits	5 Digits
Resolution	-199/999	-1999/9999	-19999/99999
Overrange	-OE / OuE	-OuE / OuE	-OuE/OuE

## Analog/digital converter

A/D conversion technique	Sigma-Delta	
A/D conversion resolution	24 bits	
A/D conversion rate	25/ s	
Input signal	Voltage	Current
Range	$\pm 10V$ DC	$\pm 20mA$ DC
	0 - 1V	0 - 1 mA
	0 - 5V	0 - 5 mA
	1 - 5V	0 - 20 mA
	0 - 10V	4 - 20 mA
Resolution	0,5 mV	5 $\mu A$
Input impedance	1 M Ohm	12.1 Ohm
Maximum error	$\pm(0,1\% \text{ reading} + 3 \text{ digits})$	
Temperature coefficient	100 ppm / °C	
Warmup time	5 minutes	
Excitation output	24V DC 100 mA	

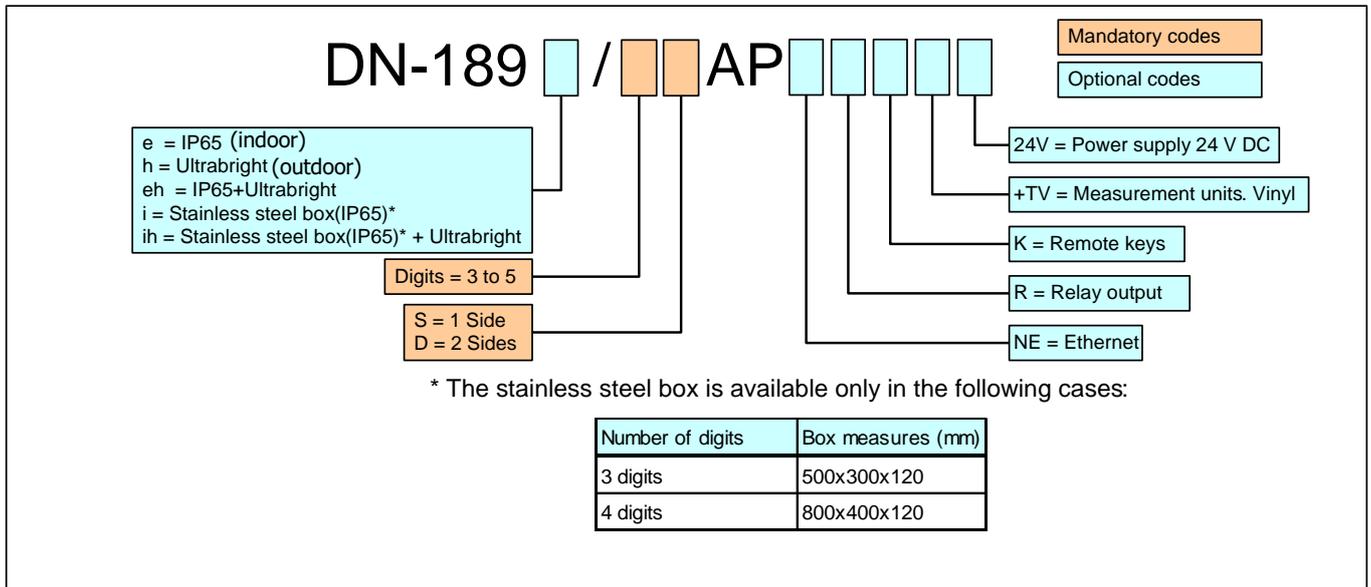
## Direct or inverse relation



## Dimensions

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

## Reference composition



## EXAMPLES:

### DN-189/4DAP

Process input signal 4 digits display DN-189 of two sides.

### DN-189e/3SAP

3 Digits, DN-189 series, one side.  
Protection degree IP65.

### DN-189e/5SAP+TV rpm

Process input signal 5 digits display DN-189 of one side.  
Text vinyl option. Text: rpm.  
Protection degree IP65.