![DITEL logo]

Serial control RS-232 / RS-485.

57 mm high digits. Industrial environment
Readable from up to 25m
1 o 2 displaying sides.

Application field

It shows data of internal registers from a PLC.
It displays data created from a PC.
It displays in big letters the lecture of voltmeter, temperature regulators, process controllers, etc.
It displays data of users equipment based on microprocessors with RS-232 and RS-485 serial line, such as large scales, electromedecine equipments, etc.
Connection to Modbus (soon with other buses).
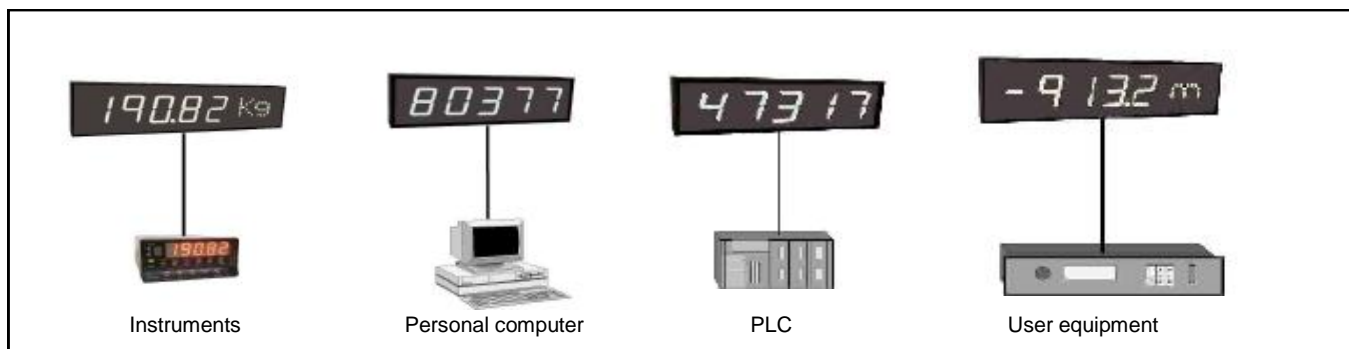If Host-Link Omron protocol is used, the RS-422 option will be necessary .

Colour option

Available for models DN-109 and DN-119. It lets you to choose the display colour depending on the input value.
The valid colours are: Red, green and yellow.

Option to display the measures units

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

| Instruments | Personal computer | PLC | User equipment |

SERIAL LINE INTERFACE CONFIGURATION

The displays includes two push bottoms to configure the protocol and the transmission characteristics:
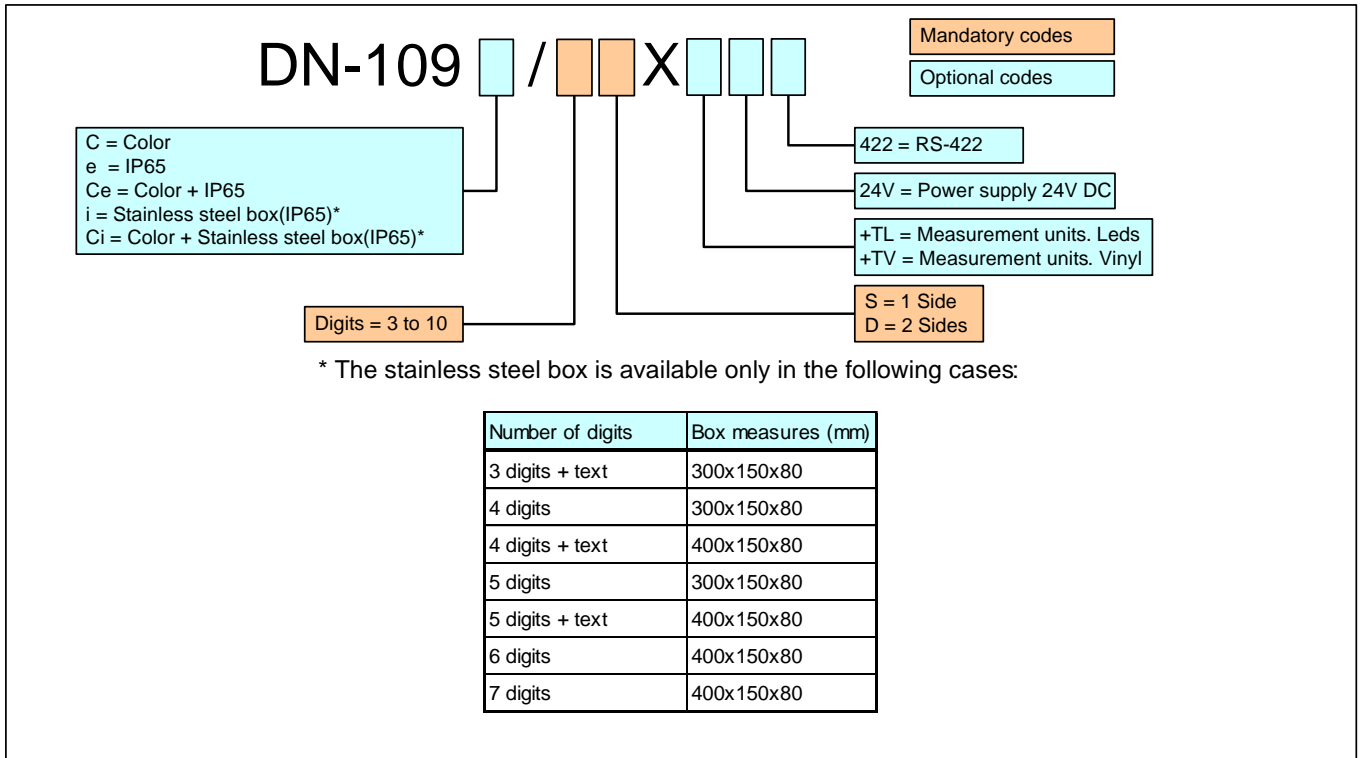baud rate, parity, data bits and stop bits.

General specifications

Numeric display Height	57mm
Unity of mesures text Height (optional)	45mm
Viewing	30 meters
Characters distribution	0 a 9, A,b,C,c,d,E,F,H,h,i,J,L,n,o,P,r,U,u [espace] and [point]
Maximum environmental lighting	1000 lux
Maximum environmental lighting. Models (eh)	No applicable
Colour. Red/Green/Yellow	Applicable
Power supply	88 to 264 VAC 47 to 63Hz . Option 24VCC
Nº of displaying sides	One or two
Box	Aluminum extruded
Assembly by lateral supports	Which fix to a surface or let in hung
Protocols	Ditel, ISO1745, Modbus, ASCII, Host-Link, S7-200,others
Operating temperature	-20° to 60°C
Storage temperature	-30° to 70°C
Protection level	IP41 (option IP65)

Dimensions

Dígits	3	4	5	6	7	8	9	10

DN-109	Height = 122mm	Depth = 120mm						
Width in mm	288	288	288	336	382	430	478	526
Width + Option tect in mm	288	336	382	430	478	526	574	622

Reference composition

DN-109 ☐ / ☐☐ X ☐☐☐

Mandatory codes

Optional codes

C = Color
e = IP65
Ce = Color + IP65
i = Stainless steel box(IP65)*
Ci = Color + Stainless steel box(IP65)*

Digits = 3 to 10

422 = RS-422

24V = Power supply 24V DC

+TL = Measurement units. Leds
+TV = Measurement units. Vinyl

S = 1 Side
D = 2 Sides

* The stainless steel box is available only in the following cases:

Number of digits	Box measures (mm)
3 digits + text	300x150x80
4 digits	300x150x80
4 digits + text	400x150x80
5 digits	300x150x80
5 digits + text	400x150x80
6 digits	400x150x80
7 digits	400x150x80

EXAMPLES:

DN-109/4DX
4 digits, DN-109 series display, two sides.

DN-109/5SX+TV "m/m"
5 digits, DN-109 series display, one side.
Text option: "m/m" in vinyl

DN-109Ce/6SX
6 Digits, DN-109 series, one side.
Red/green/yellow colour display digits. Protection degree IP65.