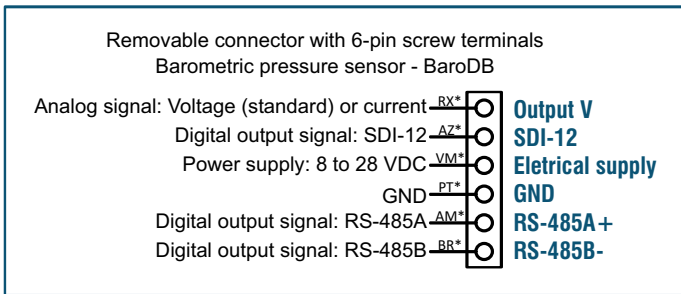


Barometric pressure sensor

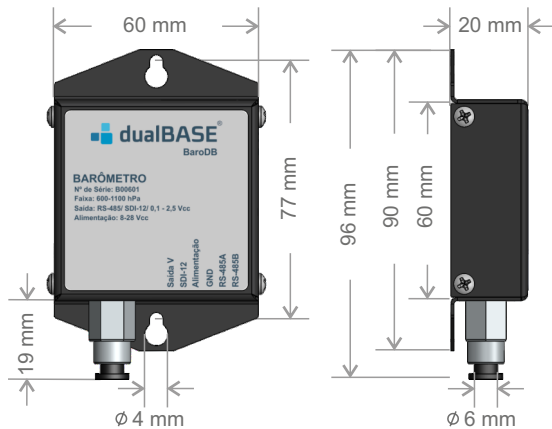


WIRING DIAGRAM



*Suggested wire colors (Dualbase standard)

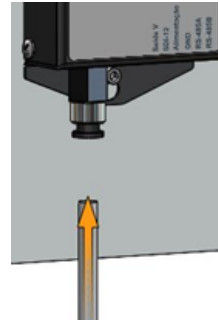
DIMENSIONS



ASSEMBLY

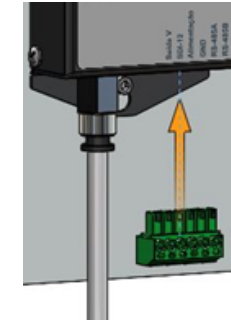
Barometer mounting:

The sensor has two mounting holes (4 mm diameter) for direct attachment. These two holes have a position for fitting (a larger hole) and another where the screw must be tightened (smaller hole).



Pressure port:

Install the barometer with the quick-connect pneumatic connector facing vertically downward to avoid potential water accumulation (due to condensation) in the sensor cavity.



Electrical connection:

The sensor has a removable terminal with screw terminals (6 screws) for quick connection.

OPERATION

Common SDI-12 Commands List:

Command	Function
a!	Acknowledge active
aAb!	Change address (default: 0)
?!	Query address
aM!	Start measurement
aD0!	Send data
aM1!	Additional measurements

Order of Information Sent via SDI-12:

Order	Variable	Unit*
1st	Barometric pressure	hPa (mBar)
2nd	Temperature	°C

*Standard unit; Other units available.

Serial Interface via RS-485 and Modbus Map:

Address:	1 (default)			
Settings:	8-N-1			
Taxa de transmissão:	9600 (default) or 115200			
Register	Variable	Unit	Type	Size
0x0002	Pressure	bar	Float	4 bytes
0x0006	Temperature	°C	Float	4 bytes

Equation $ax+b$ (Voltage x Pressure)

X - Voltage (V)	Y - Pressure (hPa)
0,1	600
2,5 / 5,0	1100

$$\text{Pressure} = (208,33 \times \text{Voltage}) + 579,17 @ 0,1 \text{ to } 2,5\text{V}$$

$$\text{Pressure} = (105,04 \times \text{Voltage}) + 589,80 @ 0,1 \text{ to } 5,0\text{V}$$