

# Technical Data Sheet

Pressure / Temperature / Humidity / Air Velocity / Airflow / Sound level

KIMO

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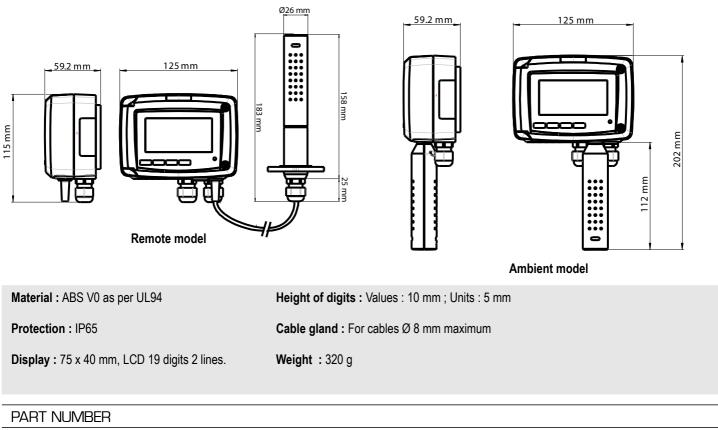
195%

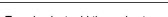
# CO<sub>2</sub> and temperature transmitter

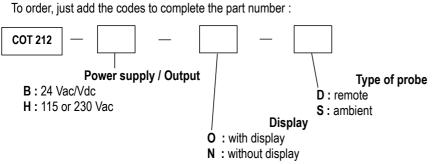
## **KEY POINTS**

- Configurable ranges from 0 to 20000 ppm and from 0 to 50  $^\circ$
- 4 wires analogue output 0-5/10 V or 0/4-20 mA
- Power supply 24 Vdc/Vac or 115/230 Vac
- Trend indicator
- ABS V0 IP65 housing, with or without display
- "1/4 turn" system mounting with wall-mount plate

#### FEATURES OF THE HOUSING









Temperature and CO, transmitter, power supply 24 Vac/Vdc, with display and ambient probe

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## TECHNICAL FEATURES IN TEMPERATURE

From 0 to +50 °C
°C/°F
±0.3°C
$T_{_{90}}$ = 0.9 second for $V_{_{air}}$ = 1 m/s
0.1 °C
NTC
Air and neutral gases

# TECHNICAL FEAUTRES IN CO

	2
Measuring range	From 0 to +20000 ppm
Unit of measurement	ppm
Accuracy*	±50 ppm or 3% of the measured value
Response time	T63 = 35 s
Resolution	1 ppm
Type of sensor	Infrared sensor
Type of fluid	Air and neutral gases

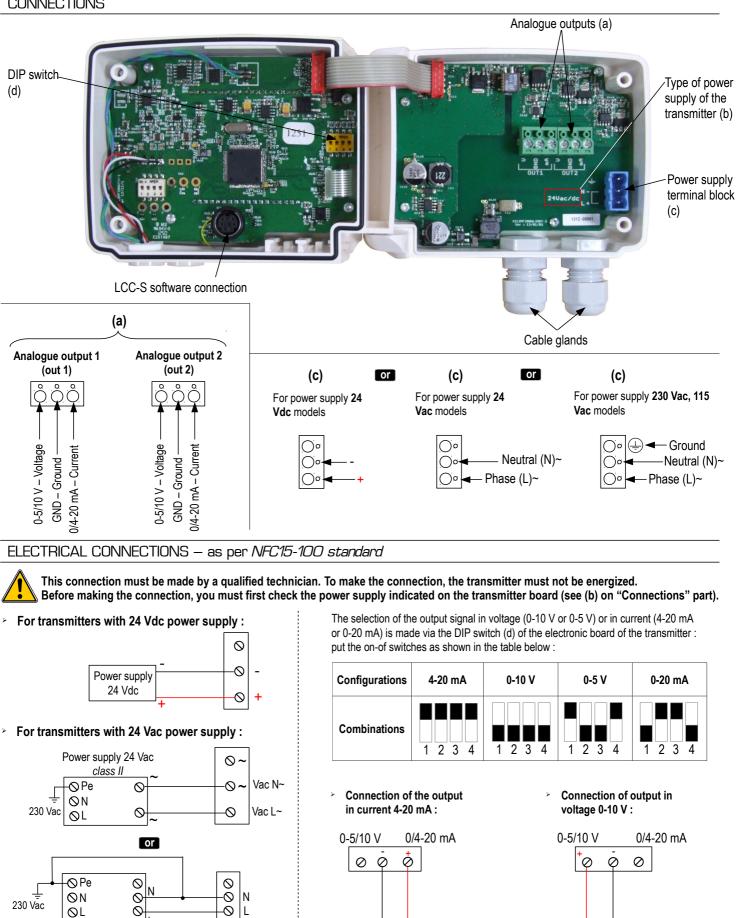
\*All the accuracies indicated in this technical datasheet were stated in laboratory conditions, and can be guaranteed for measurements carried out in the same conditions, or carried out with calibration compensation.

TECHNICAL FEATURES OF THE PROBES		
> Ambient probe		
Size	Length : 112 mm ; Diameter : 26 mm	
Material	polycarbonate	
Remote probe		
Size	Length : 158 mm (without cable gland), 183 mm (with cable gland) mm ; Diameter : 26 mm	
Material	polycarbonate	
Cable	Length : 2 m ; diameter : 4.8 mm	

# TECHNICAL SPECIFICATIONS

Power supply	24 Vac / Vdc ±10 % 115 Vac or 230 Vac ±10 %, 50-60 Hz
Output	2 x 4-20 mA or 2 x 0-20 mA or 2 x 0-5 V or 2 x 0-10 V (4 wires) Maximum load : 500 Ohms (0/4-20 mA) Minimum load : 1 K Ohms (0-5/10 V)
Galvanic isolation	Inputs and outputs (115 Vac/230 Vac models) Outputs (24 Vac/Vdc model)
Consumption	5 VA
Electromagnetical compatibility	EN61326
Electrical connection	Screw terminal block for cable 2.5 mm <sup>2</sup>
PC communication	Kimo USB-Mini Din cable
Environment	Air and neutral gases
Type of fluid	Air and neutral gases
Operating temperature	From 0 to +50 °C
Storage temperature	From -10 to +70 °C
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#### CONNECTIONS



For transmitters with 115 or 230 Vac power ۶ supply:

Power supply

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A

4-20 mA output

type

Regulator display or

PLC/BMS passive

0-10 V output

type

-01

Regulator display or

PLC/BMS passive

#### CONFIGURATION OF THE TRANSMITTERS

It is possible on the class 210 to configure all the parameters of the transmitter : units, measuring ranges, outputs, channels, calculation functions, etc, via different methods :

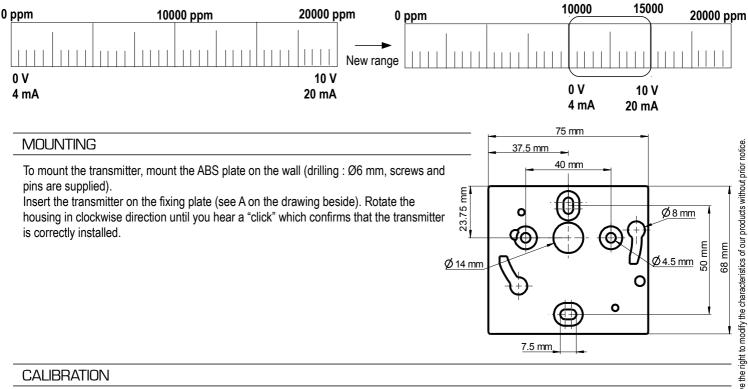
- Keypad for models with display : a code-locking system allows to secure the installation (See class 210 user manual).
- Software (optional) on all models. Simple user-friendly configuration. See LCC-SD user manual.

#### Configurable analogue output :

It is possible to configure your own intermediary ranges in CO<sub>2</sub> and in temperature.

#### Caution : the minimum difference between the high range and the low range is 20.

#### Configure the range according to your needs : outputs are automatically adjusted to the new measuring range



Outputs diagnostic : With this function, you can check with a multimeter (or on a regulator / display, or a PLC / BMS) if the transmitter outputs work properly. The transmitter generates a voltage of 0 V, 5 V and 10 V or a current of 4 mA, 12 mA and 20 mA

Certificate : Class 210 transmitters are supplied with adjusting certificates. Calibration certificates are available as an option.

#### MAINTENANCE

Please avoid any aggressive solvent. Please protect the transmitter and its probes from any cleaning product containing formalin, that may be used for cleaning rooms or ducts.

#### **OPTIONS AND ACCESSORIES**

- LCC-S : configuration software with USB cable
- Calibration certificate



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