

Technical Data Sheet

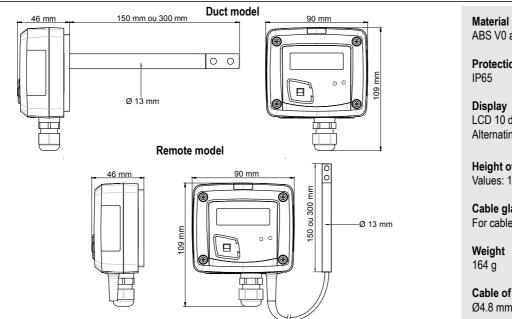
Pressure / Temperature / Humidity / Air Velocity / Airflow / Sound level

Temperature and air velocity transmitter **CTV 110**

KEY POINTS

- Measuring range from 0 to 30 m/s and from 0 to 50°C
- 0-10 V or 4-20 mA output, active, power supply 24 Vac/Vdc (3-4 wires)
- ABS V0 housing, IP65, with or without display
- Alternating display of air velocity and temperature
- "1/4 turn" system mounting with wall-mount plate
- · Housing with simplified mounting system

FEATURES OF THE HOUSING



ABS V0 as per UL94

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Protection

LCD 10 digits. Size: 50 x 17 mm Alternating display of air velocity and temperature

CE

C

KIMO

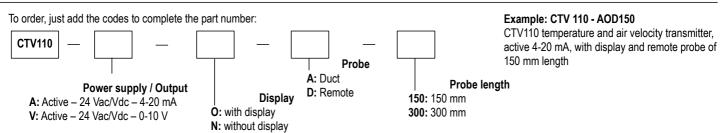
17.8

Height of digits Values: 10 mm. Units: 5 mm

Cable gland For cable Ø8 mm maximum

Cable of remote probe: length 2 m and Ø4.8 mm in PVC

PART NUMBER



TECHNICAL FEATURES IN TEMPERATURE

Measuring range	From 0 to 50°C (possibility to set the output on the following ranges: from -20 to +80°C, from -50 to +50°C, from 0 to +100°C and from 0 to +200°C)
Accuracy*	±0.3% of reading ±0.25°C
Unit of measurement	°C, °F
Response time	1/e (63%) 5 s
Type of sensor	Pt100 1/3 DIN
Resolution	0.1°C
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 IN AIR VELOCITY

Outputs settings	From 0 to 5m/s, from 0 to 10 m/s, from 0 to 15 m/s, from 0 to 20 m/s and from 0 to 30 m/s	
Accuracy*	From 0 to 3 m/s: \pm 3% of reading \pm 0.05 m/s From 3 to 30 m/s: \pm 3% of reading \pm 0.2 m/s	
Units of measurement	m/s and fpm	
Response time	1/e (63%) 2 s	
Resolution	From 0 to 3 m/s: 0.01 m/s From 3 to 30 m/s: 0.1 m/s	
Type of fluid	Air and neutral gases	

TECHNICAL SPECIFICATIONS

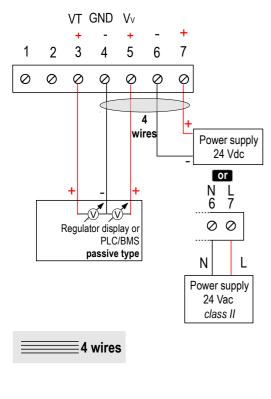
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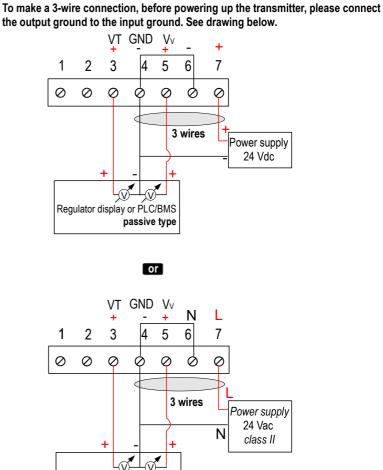
Output / Power supply	 - active sensor 0-10 V or 4-20 mA (alim. 24 Vac/Vdc ±10%), 3-4 wires - common mode voltage <30 VAC - maximum load: 500 Ohms (4-20 mA) / minimum load: 1 K Ohms (0-10 V)
Consumption	3 VA (0-10 V) or 3 VA (4-20 mA)
European directives	2014/30/EU EMC; 2014/35/EU Low Voltage; 2011/65/EU RoHS II; 2012/19/EU WEEE3
Electrical connection	Screw terminal block for cables from 0.05 to 2.5 mm ² or from 30 to 14 AWG Carried out according to the code of good practice
PC communication	USB-mini DIN cable
Environment	Air and neutral gases
Conditions of use (°C/%RH/m)	From 0 to +50°C. In non-condensing condition. From 0 to 2000 m.
Storage temperature	From -10 to +70°C

ELECTRICAL CONNECTIONS - as per NFC15-100 standard

This connection must be made by a qualified and trained technician. To make the connection, the transmitter must not be energized.

For CTV110-VNA, CTV110-VND, CTV110-VOA, CTV110-VOD models with 0-10 V output - active:



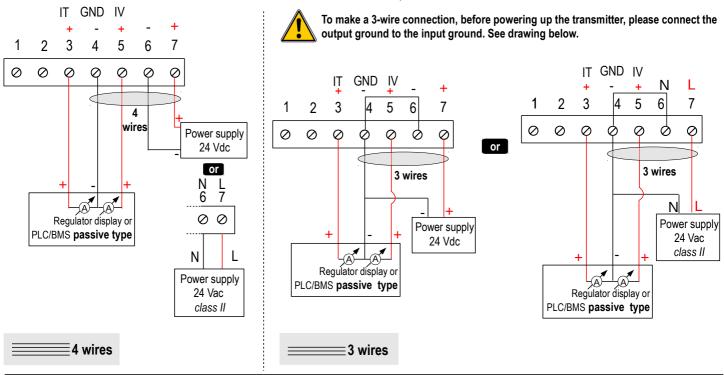


Regulator display or PLC/BMS

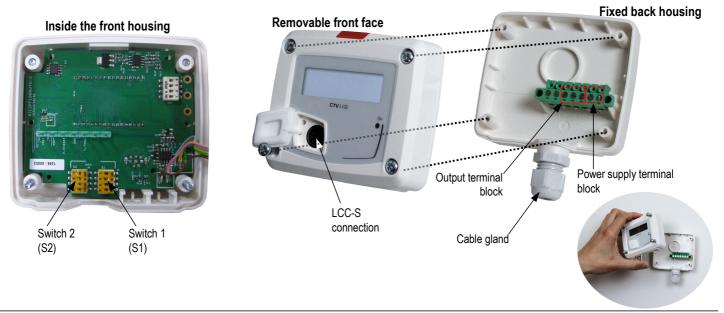
passive type

3 wires

For CTV110-ANA, CTV110-AND, CTV110-AOA, CTV110-AOD models with 4-20 mA output - active:



CONNECTIONS



SETTINGS AND USE OF THE TRANSMITTER

Configuration

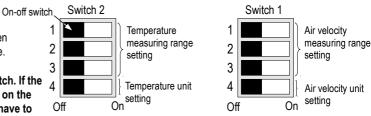
It is possible to configure the measuring ranges and the units of the transmitter via switch and/or software.

To configure the transmitter, it must not be energized. Then, you can make the settings required, with the DIP switches (as shown on the drawing below). When the transmitter is configured, you can power it up.

Configuration by switch

To configure the transmitter, unscrew the 4 screws from the housing then open it. DIP switches allowing the different settings are then accessible.

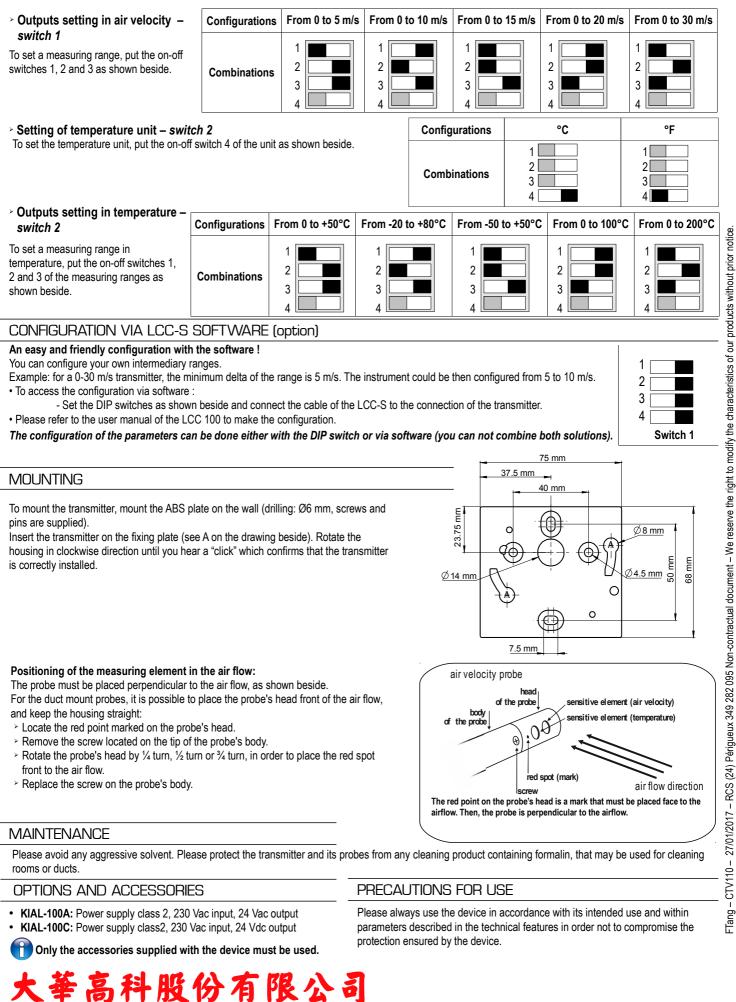
Please follow carefully the combinations beside with the DIP switch. If the combination is wrongly done, the following message will appear on the display of the transmitter "CONF ERROR". In that case, you will have to unplug the transmitter, place the DIP switches correctly, and then power the transmitter up.



Configurations	m/s	fpm
Combinations	1 2 2 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 2 3 4

> Air velocity unit setting – switch 1

To set a measurement unit in air velocity, put the on-off switch 4 of the units as shown in the table beside.



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