

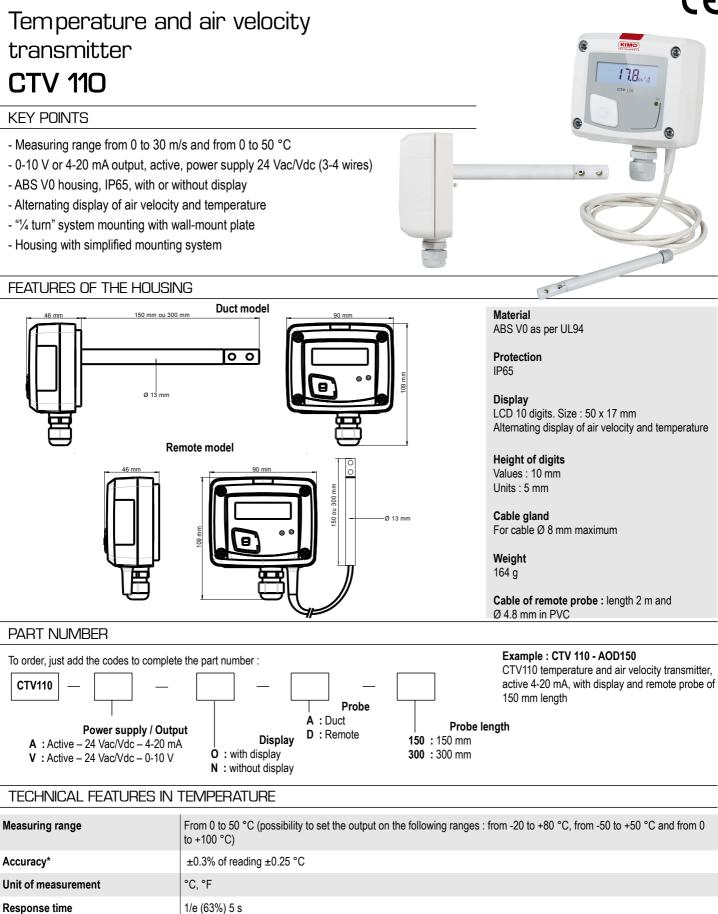
Type of sensor

Resolution

Technical Data Sheet

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

CE



Type of fluid Air and neutral gases

Pt100 1/3 DIN

0.1 °C

*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	0.1 m/s
Type of fluid	Air and neutral gases

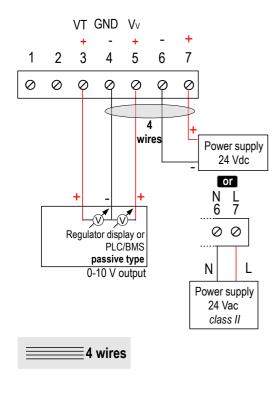
TECHNICAL SPECIFICATIONS

Output / Power supply	- active sensor 0-10 V or 4-20 mA (alim. 24 Vac/Vdc ± 10%), 3-4 wires - maximum load : 500 Ohms (4-20 mA) - minimum load : 1 K Ohms (0-10 V)
Consumption	40 mA (0-10 V) or max. 80 mA (4-20 mA)
Electromagnetical compatibility	EN61326
Electrical connection	Screw terminal block for cables Ø0.05 to 2.5 mm ²
PC communication	Kimo USB-mini Din cable
Environment	Air and neutral gases
Operating temperature	From 0 to +50 °C
Storage temperature	From -10 to +70 °C

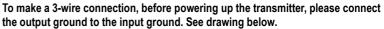
ELECTRICAL CONNECTIONS - as per NFC15-100 standard

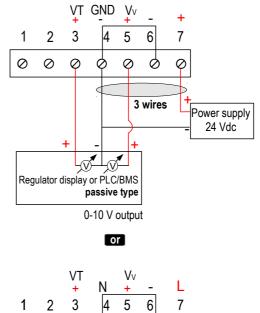
This connection must be made by a qualified technician. **To make the connection, the transmitter must not be energized.**

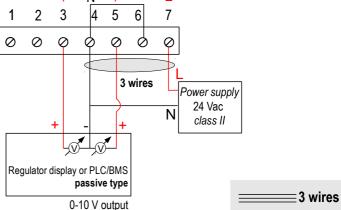
For CTV110-VNA, CTV110-VND, CTV110-VOA, CTV110-VOD models with 0-10 V output - active :



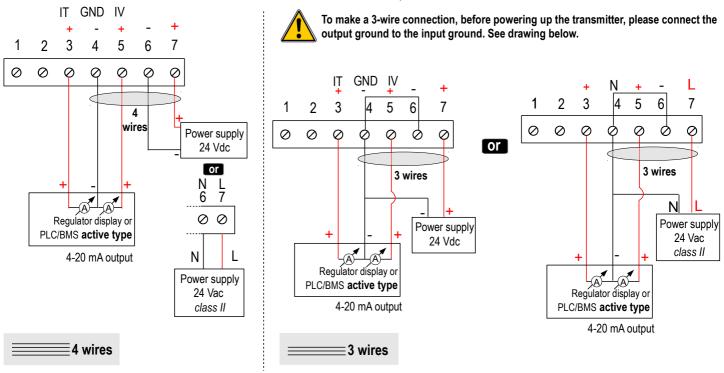




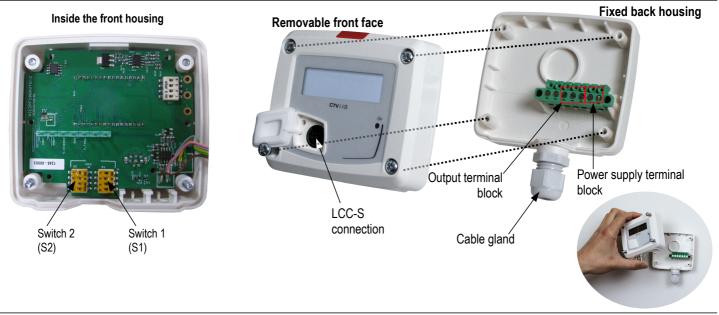




For CTV110-ANA, CTV110-AND, CTV110-AOA, CTV110-AOD models with 4-20 mA output - active :



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.

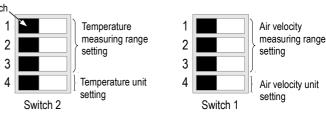
To configure the transmitter, it must not be energized. Then, you can make the settings required, with the DIP switches (as shown on the drawing below). When the transmitter is configured, you can power it up.

On-off switch

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.



> 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.

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

Outputs setting in air velocity – switch 1	Configurations	From 0 to 5 m/s	From 0 t	o 10 m/s	From 0 to	15 m/s	From 0 to 20 m/s	From 0 to 30 m/s
To set a measuring range, put the on-off switches 1, 2 and 3 as shown beside.	Combinations		1 2 3 4		1 1 2 1 3 1 4		1 2 3 4	1 2 3 4
Setting of temperature unit – switch 2 Configurations °C °F								°F
To set the temperature unit, put the on-off switch 4 of the unit as shown beside.							1	
				Combinations 2				3
						4		4
Outputs setting in temperature – switch 2	Configurations	From 0 to +50°C	From -20 1	:o +80°C	From -50	to +50°C	From 0 to 100°C	From 0 to 200°C
To set a measuring range in		1	1		1		1	1
temperature, put the on-off switches 1, 2 and 3 of the measuring ranges as	Combinations	2	2		2		2	2
shown beside.		3	3		3		3	3
CONFIGURATION VIA LCC-S SOFTWARE (option)								
		• •						

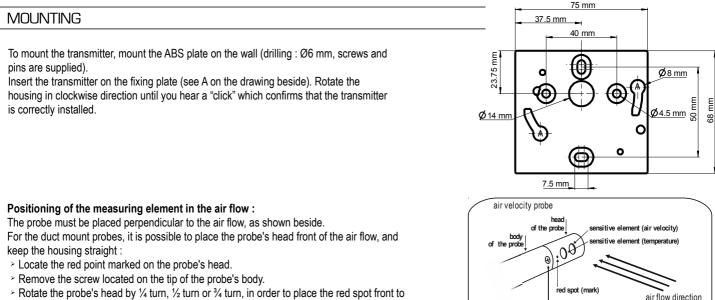
An easy and friendly configuration with the software !

You can configure your own intermediary ranges.

Example : for a 0-30 m/s transmitter, the minimum delta of the range is 5 m/s. The instrument could be then configured from 5 to 10 m/s. • To access the configuration via software :

- Set the DIP switches as shown beside.
- Connect the cable of the LCC-S to the connection of the transmitter.
- Please refer to the user manual of the LCC 100 to make the configuration.

The configuration of the parameters can be done either with the DIP switch or via software (you can not combine both solutions).



- the air flow.
- > Replace the screw on the probe's body.

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

- KIAL-100A : Power supply class 2 , 230 Vac input, 24 Vac output
- LCC-S : configuration software with USB cable
- Sliding fittings, mounting brackets, wall-mount support for hotwire probes

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1

2

3

4

The red point on the probe's head is a mark that must be placed

face to the airflow. Then, the probe is perpendicular to the

airflow.

Switch 1