

# Technical Data Sheet

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

# Differential pressure transmitter

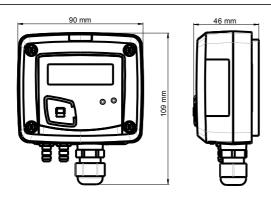
# CP 111 - CP 112 - CP 113

#### **KEY POINTS**

- Ranges from -100/+100 Pa to -10000/+10000 Pa (according to models)
- Configurable intermediary ranges
- 0-10 V or 4-20 mA output, active, power supply 24 Vac/Vdc (3-4 wires) or 4-20 mA output, passive loop, power supply from 16 to 30 Vdc (2 wires)
- ABS V0 housing, IP65, with or without display
- "1/4 turn" system mounting with wall-mount plate
- Housing with simplified mounting system
- Solenoid valve for auto-calibration (only on CP111 model)



#### FEATURES OF THE HOUSING



Material: ABS V0 as per UL94

Protection: IP65

Display: LCD 10 digits. Size: 50 x 17 mm Height of digits: Value: 10 mm; Unit: 5 mm

Connections: ribbed, Ø 6.2 mm

Cable gland : for cables Ø 8 mm maximum

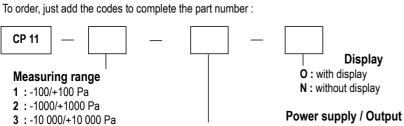
Weight: 143 g

# **TECHNICAL FEATURES**

Measurement units	Pa, mmH <sub>2</sub> O, inWG, mmHG, daPa, kPa, hPa, mbar
Accuracy*	CP111 : ±1% of reading ±2 Pa; CP112 : ±1.5% of reading ±3 Pa; CP113 : ±1.5% of reading ±3 mmH <sub>2</sub> O
Response time	1/e (63%) 0.3 s
Resolution	1 Pa ; 0.1 mmH <sub>2</sub> O ; 0.01 mbar ; 0.01 inWG ; 0.01 mmHG ; 0.1 daPa ; 0.001 kPa
Autozero	Manual with push-button ; Automatic by solenoid valve (only on CP111 model)
Type of fluid	Air and neutral gases
Overpressure tolerated	<b>CP111/112</b> : 21 000 Pa – <b>CP113</b> : 69 000 Pa
Operating temperature	From 0 to +50 °C
Storage temperature	From -10 to +70 °C

<sup>\*</sup>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

#### PART NUMBER



A: Active - 24 Vac/Vdc - 0-10 V or 4-20 mA

P: Passive - 16/30 Vdc - 4-20 mA

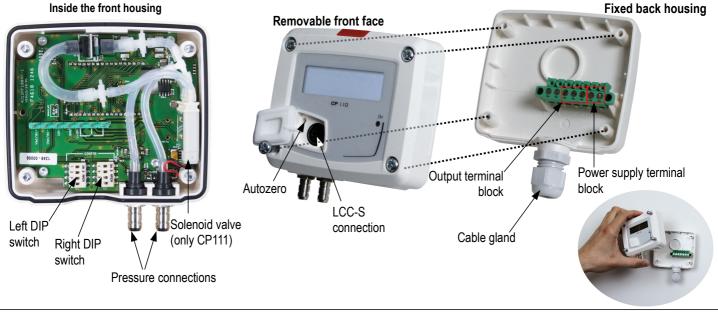
#### Example: CP 113 - AO

Pressure transmitter measuring range -10 000/+10 000 Pa, 0-10 V or 4-20 mA active, with display

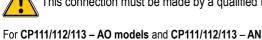
## TECHNICAL SPECIFICATIONS

Output / Supply	- active sensor 0-10 V or 4-20 mA (alim. 24 Vac/Vdc ± 10%), 3-4 wires - passive loop 4-20 mA (power supply 16/30 Vdc), 2 wires - maximum load : 500 Ohms (4-20 mA) - minimum load : 1 K Ohms (0-10 V)
Consumption	2 VA (0-10 V) or max. 22 mA (4-20 mA)
Electromagnetical compatibility	EN61326
Electrical connection	Screw terminal block for cables Ø0.05 to 2.5 mm <sup>2</sup>
Communication to PC	Kimo USB-mini Din cable
Environment	Air and neutral gases

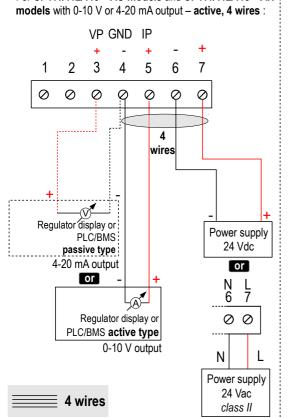
## CONNECTIONS



# ELECTRICAL CONNECTIONS - as per NFC15-100 standard

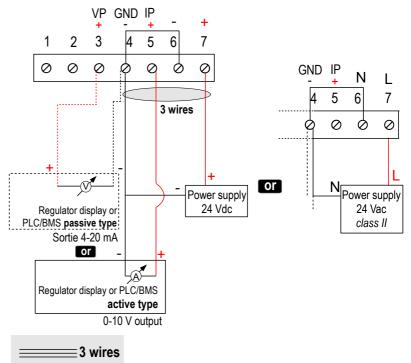


This connection must be made by a qualified technician. To make the connection, the transmitter must not be energized.

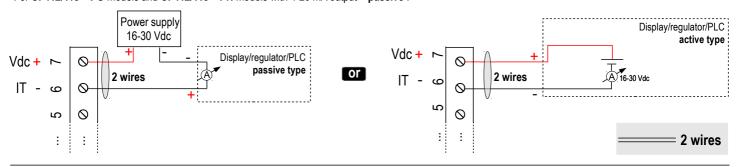




To make a 3-wire connection, before powering up the transmitter, please connect the output ground to the input ground. See drawing below.



For CP112/113 - PO models and CP112/113 - PN models with 4-20 mA output - passive :



# SETTINGS AND USE OF THE TRANSMITTER

#### > Auto-calibration

CP 111 pressure transmitter has a temperature compensation of the gain from 0 to 50 °C and an auto-calibration process that guarantees over the time an excellent stability and a perfect reliability of the measurement on low and high ranges.

Auto-calibration principle: the microprocessor of the transmitter drives a solenoid valve that compensates the possible drifts on the sensitive element over the time. The compensation is performed by the permanent adjustment of the zero. So the measurement of the differential pressure is then independent from the environmental conditions of the transmitter.

Advantage: no drift

Frequency of auto-calibration: resetable or from 1 to 60 minutes

#### > Autozero

To perform an autozero, unplug the 2 pressure connections tubes and press the "Autozero" key.

On the CP111 transmitter, it is not necessary to unplug the 2 pressure connection tubes.

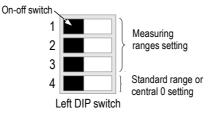
When an autozero has been performed, "On" green light turns off then turns on, and on transmitters equipped with a display, "autoZ" is displayed.

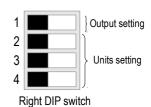
#### > Configuration



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.

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





#### Measuring range settings – left DIP switch

To set a measuring range, put the 1, 2 and 3 on-off switches as indicated in the table below.

	1 2 3 4 Combination 1		1 2 3 4 Vination 1 Combination 2		1 2 3 4 Combination 3		1 2 3 4 Combination 4			1 2 3 4 Combination 5					
Type of transmitter	CP111	CP112	CP113	CP111	CP112	CP113	CP111	CP112	CP113	CP111	CP112	CP113	CP111	CP112	CP113
Pa	20	100	1000	30	250	2500	40	500	5000	50	750	7500	100	1000	10000
mmH <sub>2</sub> O	2.0	10.0	100.0	3.0	25.0	250.0	4.0	50.0	500	5.0	75.0	750.0	10.0	100.0	1000.0
mbar	0.2	1	10.00	0.3	2.5	25.00	0.4	5.0	50.00	0.5	7.5	75.00	1.00	10.00	100.00
inWG	0.08	0.40	4.00	0.12	1.00	10.00	0.16	2.00	20.00	0.20	3.00	30.00	0.40	4.00	40.00
mmHg	0.20	0.80	8.00	0.22	2.00	20.00	0.30	4.00	40.00	0.40	6.00	60.00	0.80	8.00	80.00
daPa	2.0	10.0	100	3.0	25.0	250.0	4.0	50.0	500.0	5.0	75.0	750.0	10.0	100.0	1000.0
kPa	0.020	0.100	1.00	0.030	0.250	2.50	0.040	0.500	5.00	0.050	0.750	7.50	0.100	1.000	10.00
hPa	0.20	1.00	10.00	0.30	2.50	25.00	0.40	5.00	50.00	0.50	7.50	75.00	1.00	10.00	100.00

- Measuring ranges of the CP111 transmitter on the ±100 Pa range according to the measurement unit
- Measuring ranges of the CP112 transmitter on the ±1000 Pa range according to the measurement unit
- Measuring ranges of the CP113 transmitter on the ±10 000 Pa range according the the measurement unit.

#### Example:

- From 0 to 750 mmH<sub>2</sub>O, measuring range is 750 mmH<sub>2</sub>O.
- From -500 Pa to +500 Pa, measuring range is 1000 Pa.

# > Standard range / central zero setting – left DIP switch

To set the type of measuring range, put the on-off switch 4 as indicated beside :

Example 0-100 Pa : Full scale / 0 Central zero

(0 / 100 Pa) (-50 Pa / 0 / +50 Pa)



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.

> Output setting - right DIP switch (CP111/112/113 - AO and CP111/112/113 - AN models)

To set the type of analogue output, please put the on-off switch of the output as shown beside

Configurations	4-20 mA	0-10 V
Combinations	1 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1 2 3

Configurations

**Combinations** 

Full scale

#### > Units setting - right DIP switch

To set a measurement unit, put the on-off switches 2, 3 and 4 of the units as shown in the table below .

Configurations	Pa	mmH <sub>2</sub> O	mbar	InWG	mmHG	daPa	kPa	hPa
Combinations	1 2 3 4	1 2 3 4 4 M	1 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1 2 3 4	1 2 3 4	1 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1 2 3 4 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6

#### CONFIGURATION VIA LCC-S SOFTWARE (option)

#### An easy and friendly configuration with the software!

You can configure your own intermediary ranges.

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

For example, it is possible to set the instrument from -20 to 0 Pa, from 0 to +20 Pa, or from -10 to +10 Pa...

- To access the configuration via software :
- Set the DIP switches as shown beside. Nota: the on-off switch 1 of the right DIP switch can be in any position (selection of the analogue output 0-10 V or 4-20 mA)
  - Connect the cable of the LCC-S to the connection of the transmitter.
- Please refer to the user manual of the LCC-S 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).

#### 

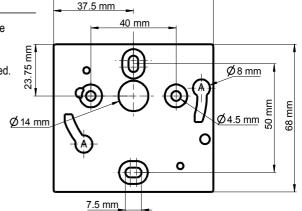
# MOUNTING

To mount the transmitter, mount the ABS plate on the wall (drilling : Ø6 mm, screws and pins are supplied).

Insert the transmitter on the fixing plate (see A on the drawing beside). Rotate the housing in clockwise direction until you hear a "click" which confirms that the transmitter is correctly installed.



Once the transmitter is installed and powered up, please make an autozero to guarantee the correct working of the transmitter in any position.



75 mm

# **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

- Connection tube
- Connection fittings
- Through-connections
- · Straight connections
- · Spherical coupling nut

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# **Technical Data Sheet**

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

# Differential pressure transmitter

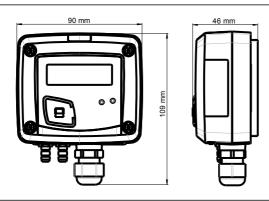
# CP 114 - CP 115

#### **KEY POINTS**

- Ranges from -500/+500 mbar to -2000/+2000 mbar (according to models)
- Configurable intermediary ranges
- 0-10 V or 4-20 mA output, active, power supply 24 Vac/Vdc (3-4 wires) or 4-20 mA output, passive loop, power supply from 16 to 30 Vdc (2 wires)
- ABS V0 housing, IP65, with or without display
- "1/4 turn" system mounting with wall-mount plate
- Housing with simplified mounting system



# FEATURES OF THE HOUSING



Material: ABS V0 as per UL94

Protection: IP65

Display: LCD 10 digits. Size: 50 x 17 mm

Height of digits: Value: 10 mm; Unit: 5 mm

Connections: safety Ø 6.2 mm

Cable gland: for cables Ø 8 mm maximum

Weight: 143 g

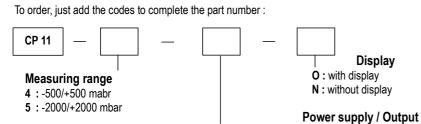
## TECHNICAL FEATURES

Measurement units	mbar, inWG, mmHG, PSI, mmH <sub>2</sub> O, daPa, hPa, kPa
Accuracy*	±1.5% of reading ±3 mbar
Response time	1/e (63%) 0.3 s
Resolution	1 mbar; 0.1 inWG; 1 mmHG; 1 mmH <sub>2</sub> O; 1 hPa; 10 daPa; 0.1 kPa; 0.1 PSI
Autozero	Manual with push-button
Type of fluid	Air and neutral gases
Overpressure tolerated	CP114 : 1400 mbar ; CP115 : 4100 mbar
Operating temperature	From 0 to +50 °C
Storage temperature	From -10 to +70 °C

<sup>\*</sup>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.

**A**: Active – 24 Vac/Vdc – 0-10 V or 4-20 mA **P**: Passive – 16/30 Vdc – 4-20 mA

#### PART NUMBER



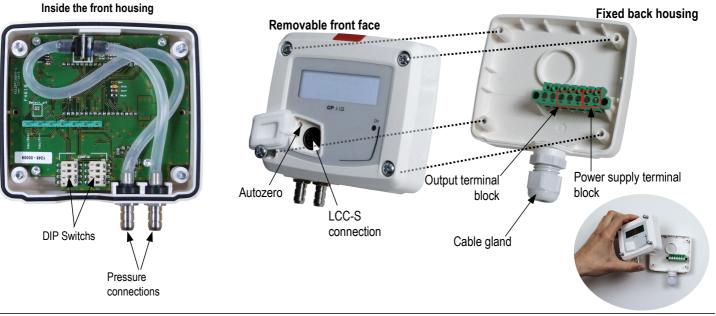
Example: CP 114 - AO

Pressure transmitter measuring range -500/+500 mbar, 0-10 V or 4-20 mA active, with display

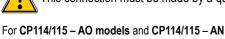
## **TECHNICAL SPECIFICATIONS**

Output / Supply	- active sensor 0-10 V or 4-20 mA (alim. 24 Vac/Vdc ± 10%), 3-4 wires - passive loop 4-20 mA (power supply 16/30 Vdc), 2 wires - maximum load : 500 Ohms (4-20 mA) - minimum load : 1 K Ohms (0-10 V)
Consumption	2 VA (0-10 V) or max. 22 mA (4-20 mA)
Electromagnetical compatibility	EN61326
Electrical connection	Screw terminal block for cables Ø0.05 to 2.5 mm <sup>2</sup>
Communication to PC	Kimo USB-mini Din cable
Environment	Air and neutral gases

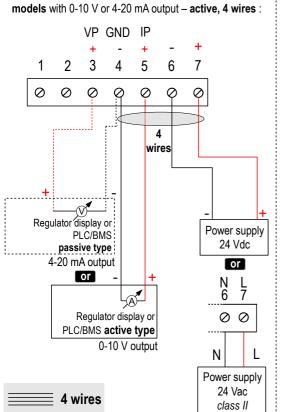
#### CONNECTIQUES



# ELECTRICAL CONNECTIONS - as per NFC15-100 standard

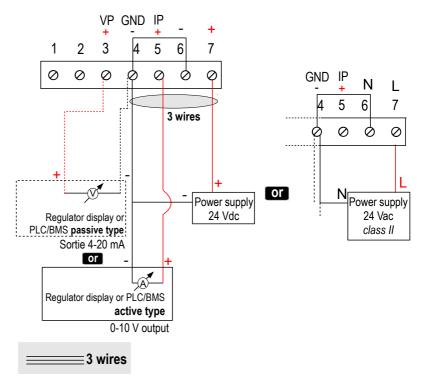


This connection must be made by a qualified technician. To make the connection, the transmitter must not be energized.

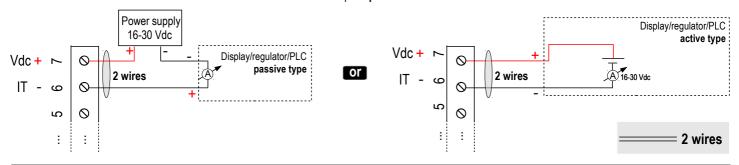




To make a 3-wire connection, before powering up the transmitter, please connect the output ground to the input ground. See drawing below.



#### For CP114/115 – PO models and CP114/115 – PN models with 4-20 mA output – passive :



#### SETTINGS AND USE OF THE TRANSMITTER

#### Autozero

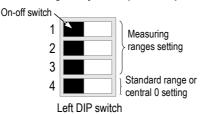
To perform an autozero, unplug the 2 pressure connections tubes and press the "Autozero" key. When an autozero has been performed, "On" green light turns off then turns on, and on transmitters equipped with a display, "autoZ" is displayed.

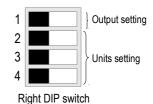
#### Configuration



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.

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





#### Measuring range settings – left DIP switch

To set a measuring range, put the 1, 2 and 3 on-off switches as indicated in the table below.

	1 2 3 4 Combination 1		3 4		1 2 3 4 Combin	ation 2	1 2 3 4 Combina	ation 3	1 2 3 M 4 Combin	ation 4	1 2 3 4 Combi	nation 5
Type of transmitter	CP114	CP115	CP114	CP115	CP114	CP115	CP114	CP115	CP114	CP115		
mbar	100	500	200	750	300	1000	400	1500	500	2000		
inWG	40.0	200.0	80.0	300.0	120.0	400.0	160.0	600.0	200.00	800.0		
kPa	10.0	50.0	20.0	75.0	30.0	100.0	40.0	150.0	50.0	200.0		
PSI	2.0	10.0	4.0	15.0	6.0	20.0	8.0	30.0	10.0	40.0		
mmHg	80	400	160	600	240	800	320	1200	400	1600		
mmH <sub>2</sub> O	1000	5000	2000	7500	3000	10 000	4000	15 000	5000	20000		
daPa	1.0	5.0	2.0	7.5	3.0	10.0	4.0	15.0	5.0	20.0		
hPa	100	500	200	750	300	1000	400	1500	500	2000		

- Measuring ranges of the CP114 transmitter on the ±500 mbar range according to the measurement unit.
- Measuring ranges of the CP115 transmitter on the ±2000 mbar range according to the measurement unit.

#### Example:

- From 0 to 750 mmH<sub>2</sub>O, measuring range is 750 mmH<sub>2</sub>O.
- From -500 mbar to +500 mbar, measuring range is 1000 mbar.

# > Standard range / central zero setting - left DIP switch

To set the type of measuring range, put the on-off switch 4 as indicated beside :

Example 0-100 mbar : Full scale / 0 Central zero



(0 / 100 mbar) (-50 mbar / 0 / +50 mbar)

Configurations	Full scale	Central zero			
Combinations					



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.

> Output setting - right DIP switch (CP114/115 - AO and CP114/115 - AN models)

To set the type of analogue output, please put the on-off switch of the output as shown beside.

Configurations	4-20 mA	0-10 V
Combinations	1 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1 2 3 4

#### > Units setting - right DIP switch

To set a measurement unit, put the on-off switches 2, 3 and 4 of the units as shown in the table below.

Configurations	mbar	inWG	kPa	PSI	mmHG	$\rm mmH_2^{}O$	daPa	hPa
Combinations	1 2 3 4	1 2 3 4	1 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1 2 3 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 3 4	1 2 3 3 4	1 2 3 4 4	1 2 3 4

#### CONFIGURATION VIA LCC-S SOFTWARE (option)

#### An easy and friendly configuration with the software!

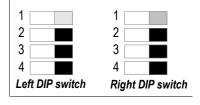
You can configure your own intermediary ranges.

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

For example, it is possible to set the instrument from -20 to 0 mbar, from 0 to +20 mbar, or from -10 to +10 mbar...

- To access the configuration via software :
  - Set the DIP switches as shown beside. Nota: the on-off switch 1 of the right DIP switch can be in any position (selection of the analogue output 0-10 V or 4-20 mA)
  - 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).



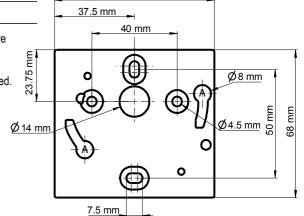
### MOUNTING

To mount the transmitter, mount the ABS plate on the wall (drilling : Ø6 mm, screws and pins are supplied).

Insert the transmitter on the fixing plate (see A on the drawing beside). Rotate the housing in clockwise direction until you hear a "click" which confirms that the transmitter is correctly installed.



Once the transmitter is installed and powered up, please make an autozero to guarantee the correct working of the transmitter in any position.



75 mm

#### **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

- Connection tube
- Connection fittings
- Through-connections
- Straight connections
- Spherical coupling nut

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# Technical Data Sheet

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

# CE

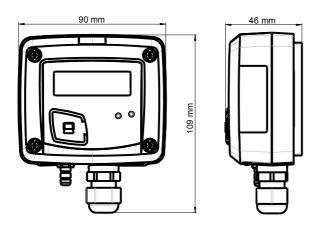
# Atmospheric pressure transmitter **CP 116**

#### **KEY POINTS**

- Measuring range from 800 to 1100 hPa
- Indication of the pressure in mbar, mmHG ou hPa
- 0-10 V or 4-20 mA output, active, power supply 24 Vac/Vdc (3-4 wires) or 4-20 mA output, passive loop, power supply from 16 to 30 Vdc (2 wires)
- ABS V0 housing, IP65, with or without display
- "1/4 turn" system mounting with wall-mount plate
- Housing with simplified mounting system



#### FEATURES OF THE HOUSING



Material: ABS V0 as per UL94

Protection: IP65

Display: LCD 10 digits. Size: 50 x 17 mm

Height of digits: Value: 10 mm; Unit: 5 mm

Connections: ribbed, Ø 6.2 mm

Cable gland: for cables Ø 8 mm maximum

**Weight**: 143 g

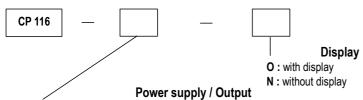
#### TECHNICAL FEATURES

Measurement units	mbar, hPa, mmHG
Accuracy*	±3 hPa
Response time	< 10 seconds
Resolution	1 mbar ; 1 hPa ; 1 mmHG
Type of fluid	Air and neutral gases
Operating temperature	From 0 to +50 °C
Storage temperature	From -10 to +70 °C

<sup>\*</sup>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.

# PART NUMBER

To order, just add the codes to complete the part number :



A : Active - 24 Vac/Vdc - 0-10 V or 4-20 mA

P: Passive - 16/30 Vdc - 4-20 mA

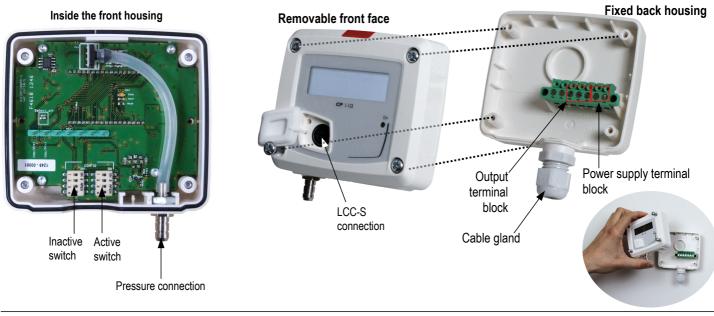
Example: CP 116 - PO

Transmitter of atmospheric pressure, passive transmitter 16/30 Vdc, with display

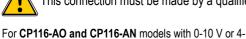
## **TECHNICAL SPECIFICATIONS**

Output / Power supply	- active sensor 0-10 V or 4-20 mA (alim. 24 Vac/Vdc ± 10%), 3-4 wires - passive loop 4-20 mA (power supply 16/30 Vdc), 2 wires - maximum load : 500 Ohms (4-20 mA) - minimum load : 1 K Ohms (0-10 V)
Consumption	2 VA (0-10 V) or max. 22 mA (4-20 mA)
Electromagnetical compatibility	EN61326
Electrical connection	Screw terminal block for cables Ø0.05 to 2.5 mm <sup>2</sup>
Communication PC	Kimo USB-mini Din cable
Environment	Air and neutral gases

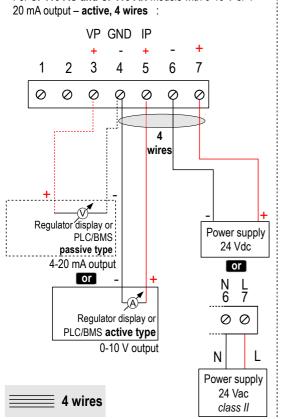
# CONNECTIONS



# ELECTRICAL CONNECTIONS - as per NFC15-100 standard

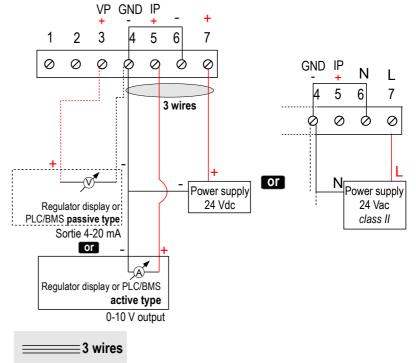


This connection must be made by a qualified technician. To make the connection, the transmitter must not be energized.

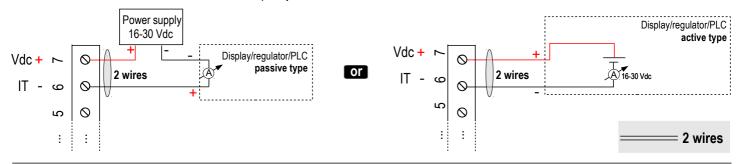




To make a 3-wire connection, before powering up the transmitter, please connect the output ground to the input ground. See drawing below.



For  $\mbox{CP116-PO}$  and  $\mbox{CP116-PN}$  models with 4-20 mA output – passive :



#### SETTINGS AND USE OF THE TRANSMITTER

#### Configuration



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.

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.

> Output setting - active switch

To set the type of analogue output, please put the on-off switch of the output as shown beside.

Configurations	4-20 mA	0-10 V
Combinations	1 <b></b> 2 <b></b> 3 <b></b> 4 <b></b>	1 2 3

#### > Units setting - active switch

To set a measurement unit, put the on-off switches 2, 3 and 4 of the units as shown in the table below.

Configurations	mbar	mmHG	hPa
Combinations	1 2 3 4	1 2 3 4	1 2 3 4

#### CONFIGURATION VIA LCC-S SOFTWARE (option)

An easy and friendly configuration with the software!

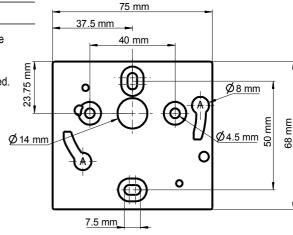
- To access the configuration via software:
  - Set the DIP switches as shown beside. Nota: the on-off switch 1 of the active DIP switch can be in any position (selection of the analogue output 0-10 V or 4-20 mA).
  - Connect the cable of the LCC-S to the connection of the transmitter.
- Please refer 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).

# MOUNTING

To mount the transmitter, mount the ABS plate on the wall (drilling : Ø6 mm, screws and pins are supplied).

Insert the transmitter on the fixing plate (see A on the drawing beside). Rotate the housing in clockwise direction until you hear a "click" which confirms that the transmitter is correctly installed.



## **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

- · Connection tube
- Connection fittings
- Through-connections
- Straight connections
- Spherical coupling nut

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