KDP110
Differential Pressure Transmitter

KeramControls®

Description

KDP110 differential pressure transmitter has the characteristics of high accuracy, ultra-low adjustable range and fast response. It is widely used in the clean rooms of electronic and pharmaceutical factories, as well as the automatic control system of commercial buildings, HVAC air conditioning processor system, medical centers and transportation hubs.

Features

- Ranges from -25/+25Pa to -10000/+10000Pa (according to models)
- Auto zero manual calibration
- Voltage, current, digital signal output
- Standard accuracy <±1% FS
- IP65 house protection

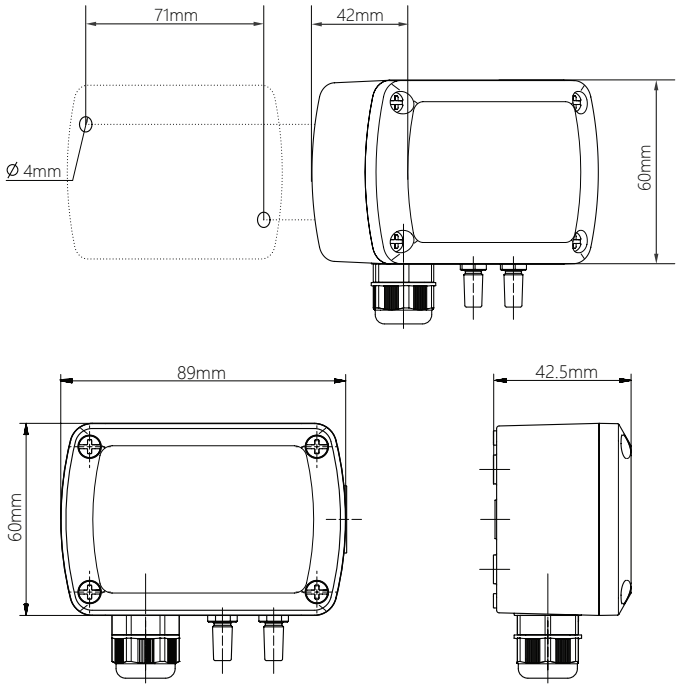
Applications

- HVAC system
- Pharmaceutical clean rooms
- Electronic clean rooms
- Medical clean rooms
- Commercial buildings
- Public transport hub

Technical Data

Model	KDP110
Measurement units	Pa, mmH_2O, mmHG, mbar
Accuracy	<±1% FS@-5 to +65°C
Response time	0.5s
Repeatbality	±0.01 % at FS / year
Resolution	0.1 Pa; 0.1 mmH_2O; 0.01 mbar; 0.01 mmHG
Media	Air and neutral gases
Operating temperature	-20 ··· +70°C
Storage temperature	-40 ··· +60°C
Power consumption	<3 W
Tolerated overpressure	×15
Power Supply	16~30VAC/DC (3 wire) / 18-30VDC (2 wire)
Output signal	4-20mA (2 wire)
	4-20mA (3 wire)
	0-5 / 0-10VDC (3 wire)
	RS-485
	Customized
Auto zero	Manual calibration
Housing material	Polycarbonate & ABS, UL94V-0
Protection class	IP65 / NEMA4
Cable Gland	M16*1.5

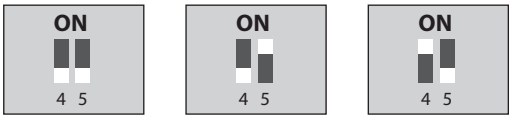
Dimensions (mm)



Measuring Range Adjustment

	ON 1 2 3	ON 1 2 3	ON 1 2 3	ON 1 2 3	ON 1 2 3	ON 1 2 3	ON 1 2 3	ON 1 2 3
KDP110-1	0~+100	0~+75	0~+50	0~+25	-25~+25	-50~+50	-75~+75	-100~+100
KDP110-2	0~+1000	0~+750	0~+500	0~+250	-250~+250	-500~+500	-750~+750	-1000~+1000
KDP110-3	0~+2000	0~+1500	0~+1000	0~+500	-500~+500	-750~+750	-1500~+1500	-2000~+2000
KDP110-4	0~+10000	0~+7500	0~+5000	0~+2500	-2500~+2500	-5000~+5000	-7500~+7500	-10000~+10000

Output Setting (3-wire Model)



0-5V **0-10V** **4-20mA**

To configure the transmitter, it must not be energized. Then, you can make the settings required, with the DIP switches. When the transmitter is configured, you can power it up.

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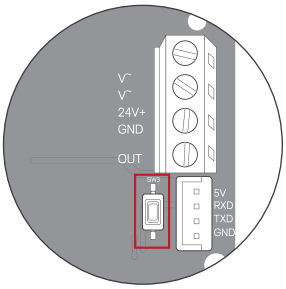
Manual Zero-point Correction



In normal operation zero point correction should be executed every 12 months.
For executing zero point correction the power supply must be connected one hour before.

- Release both connection tubes from the pressure terminals + and –
- Press and hold the button for 3 seconds.
- Reinstall the connection tubes

Ordering Guide

KDP110	–	Range	–	Output

Model	Ranges		Output	
KDP110	-100~+100Pa	(1)	4-20mA (2 wire)	(E)
	-1000~+1000Pa	(2)	4-20mA (3 wire)	(F)
	-2000~+2000Pa	(3)	0-5 / 0-10VDC (3 wire)	(G)
	-10000~+10000Pa	(4)	RS-485	(H)
			Customized	

Order Examples

KDP110-1-E

Model	KDP110 Differential Pressure Transmitter
Ranges	-100~+100 Pa
Output	4-20mA (2 wire)

Notes On Disposal

Most Keram Controls products may contain valuable materials that should be recycled rather than treated as domestic waste.
Please pay attention to the relevant regulations of local disposal.

Product Certification

CE

Declaration of conformity
The declaration of conformity of the products can be found on our website Https//: www.keramcontrols.com

Accessories(OPTIONAL)

Pressure connection set:
2 m PVC hose with 2 ABS pressure connection nipples.