

Differential pressure transducer Type DKP900



Features

- Pinpoint accuracy due to adjustable measurement ranges
- 10 measurement ranges (including +/- ranges) in a single model allow you to save storage capacities
- Analog outputs can be configured on site
- Optional LCD for all models
- Long-term stable sensor with high accuracy
- Button for instant zero point calibration

Versatile HVAC transducer

The DKP900 is a differential pressure transducer suitable for almost every HVAC application.

The measurement range as well as the analog output signal can be set and adjusted on site. Therefore you will only have to keep one model type in storage for any of your applications.

Analog output and measurement range

The DKP900 is available either with a 4...20mA two-wire current loop, or as three-wire type with the output ranges 0...10V, 0...20mA and 4...20mA.

You can choose from two sensor ranges (0...1 000 Pa, and 0...10 000Pa) which are scaleable from 0...100Pa to 0...10 000Pa with a DIP switch. The DIP switch also allows you to change the measurement units (Pa, mbar or psi).

The transducer comprises a sensor with good long-term stability and an optional zero point calibration, which can be performed at the push of a button.

The DKP900 is protected against splash water according to IP65 making it suitable for operation under rough conditions.

Specifications

The DKP900 is available in two versions:

	Version 1	Version 2
Analogue output	0...10V, 0...20mA, 4...20mA (three-wire)	4...20mA (two-wire current loop)
Power supply	12...35VDC, 24VAC ($\pm 5\%$)	12...35VDC
Current drain (with LCD)	7.5mA	4...20mA
Max. load for current output	max. 500Ohm	
Voltage output load resistance	min. 10kOhm	n/a
Accuracy	$\pm 0.5\%$ of maximum range	$\pm 1\%$ of maximum range
Resolution	0.025% of selected range	0.015% of selected range
Overpressure protection	Measuring range A: 10000Pa Measuring range B: 80000Pa	
Operating temperature without LCD with LCD	-20...+85°C -20...+60°C	
Long-term stability	< $\pm 0.9\%$ FS/year	< $\pm 0.2\%$ FS/year
Update rate of the analogue output, default	1x / second	

Measuring ranges: 10 ranges for each sensor range (A / B) configurable via DIP switch:

A: 0...100Pa, 0...250Pa, 0...500Pa, 0...750Pa, 0...1000Pa
 $\pm 100\text{Pa}$, $\pm 250\text{Pa}$, $\pm 500\text{Pa}$, $\pm 750\text{Pa}$, $\pm 1000\text{Pa}$

B: 0...1000Pa, 0...2500Pa, 0...5000Pa,
0...7500Pa, 0...10000Pa
 $\pm 1000\text{Pa}$, $\pm 2500\text{Pa}$, $\pm 5000\text{Pa}$,
 $\pm 7500\text{Pa}$, $\pm 10000\text{Pa}$

Mechanical Data

Housing material:	ABS-FR
Color:	light grey, equiv. to RAL 7035
Protection class:	IP65 (NEMA 4)
Cable gland:	PG9
Connection:	0.25...1.5mm ² wire cross-section
Pressure ports:	2 brass nipples D=6mm
Installation:	Screw mounting
Pressure - zero point alignment:	Push button
Electrical zero point alignment:	Push button

Order code

Order code DKP900-MB-V-LCD-N

-MB	A= measuring range A B= measuring range B
-V	1= three-wire analog output 2= two-wire 4-20mA
-LCD	0= without LCD D= with LCD
-N	0= manual zero point calibration