

Calair PS (-D)

Pressure sensor with 3 selectable measurement ranges, with or without display, 0-10 V output.

CE 7.9.4.E



- Stable output signal 0-10 V
- Galvanically isolated supply current
- Linear temperature response
- Calibrated in climate chamber
- 3 selectable measurement ranges, 0-100, 500, 1500 Pa
- With or without display
- 3-wire connection facility

TECHNICAL DATA

Supply voltage:	24 VAC +10/-15%, galvanically isolated.
Output signal:	0-10V DC
- resolution	39 mV
- max. load	1.5 mA
Pressure range:	0-100/500/1500 Pa
Accuracy:	Normally 0.1%, max. 0.4% of entire pressure range (2000 Pa)
Repetition accuracy:	0.05%
Hysteresis:	0.05%
Display:	4 figure, LCD
Ambient temperature:	0-50°C
Encapsulation class:	IP54
Installation:	Wall
Dimensions, HxWxD:	without hose (cable) inlets, 179x98x53 mm
Approval:	CE

FUNCTION

The CALAIR-PS is a pressure sensor with an 0-10 V output signal. A microprocessor ensures that the output signal is stable. The CALAIR-PS has 3 selectable measurement ranges, 0-100, 500, 1500 Pa, which are selected by a switch on the circuit board. The CALAIR-PS is available with a display (CALAIR-PS-D). Zero calibration can be done with a push button on the circuit board. The CALAIR-PS is also available with 230 VAC or 120 VAC supply voltage. During manufacture, each individual CALAIR-PS is calibrated in a climate chamber, which gives it linear temperature response between 0 and 50°C ambient temperature.

APPLICATIONS

The CALAIR-PS is designed for pressure differential measurement in ventilation ducts etc. The output signal (0-10 VDC) is connected to a DUC regulator or motor speed control with built-in regulator.

INSTALLATION

The CALAIR-PS is wall mounted.

MAINTENANCE

CALAIR-PS zero calibration: Keep the zero calibration button depressed until the display shows "0".

ORDER DATA

Part
Pressure sensor
do. with display

Item code:
CALAIR-PS
CALAIR-PS-D

