Test & Measurement

Precise. Fast. Compact.

WIKA

Smart in sensing

Pressure measurement right on target

The P-30 pressure transmitter series has been developed for precision measurement in industrial applications. These premium pressure sensors are especially suited to the requirements of test benches and test systems.

Extremely **PRECISE** – with a maximum measuring deviation of 0.05 % FS and minimal temperature errors.

Unbelievably **FAST** – with high measurement and output rates of up to 1 kHz (1 ms) even the finest nuances in the signal can be securely captured.

Impressively **COMPACT** – with a 27 mm diameter it is ideal for installation in 19" racks.

Application examples

Industrial testing and inspection systems

Test and calibration laboratories

Systems for leak and seal testing

Engine test benches in testing and production

Emission measurement and analysis systems

Development laboratories in the automobile industry

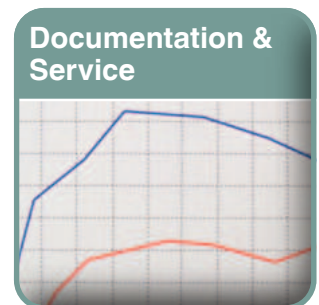# Pressure transmitter for precision measurements model P-30

P-30	analogue	CANopen	USB
Pressure ranges	■ 0.25 … 1,000 bar relative ■ 0 … 25 bar absolute ■ -1 … +15 bar vacuum		
Output signals	■ 4 … 20 mA (2- or 3-wire) ■ 0 … 5 V, 0 … 10 V (3-wire) ■ 0 ... 20 mA (3-wire)	■ CANopen in accordance with CiA; DS 301 protocol, DS 404 device profile	■ USB 2.0
Service interface & software	■ USB interface ■ EasyCom 2011	■ CAN-USB interface ■ EasyCom CANopen	■ Data logger ■ EasyCom 2011
Accuracy	0.05 % or 0.1 % without additional temperature error in the range of 10 ... 60 °C		
Measuring rate	up to 1 kHz (1ms)		
Electrical connection	M12 x 1 circular connector (4-pin), Cable output, Angular connector DIN 175301-803 Form A and others	Circular connector M12 x 1 (5-pin)	USB connector type A
Pressure connection	■ Model P-30: G ½, G¼, ½ NPT, ¼ NPT and others ■ Model P-31: G 1 flush, G ½ flush		
Details	Data sheet PE 81.54		

Measurement

- Easy integration into test systems
- Accuracy 0.1 % or 0.05 %
- 0 ... 250 mbar to 0 ... 1,000 bar

Data acquisition

- PC driver for analogue and USB output
- EDS file for P-30 CANopen V1.1
- P-30 interface DLL

Documentation & Service

- Calibration and setting: WIKA EasyCom software
- Customer-specific datalogging reports: WIKA Datalogger Software

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