

Pressure Transmitter

Model 430/530

ISO 9001 Qualified

Application

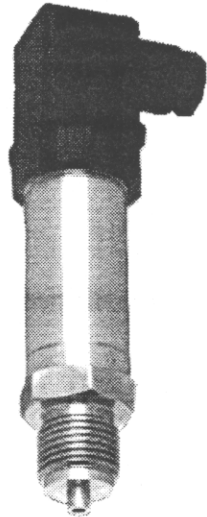
Piezo-resistive pressure transmitters are used to measure pressures in hydraulic and pneumatic system, chemical plants and process engineering as well as in air conditioning and environmental technology.

Model designation

X30	pressure instrument pipemounted piezo-resistive case size
430	output 1-6V
530	output 4-20mA, 2 wire (standard)

Pressure ranges

Gauge pressure PSI	Absolute Pressure PSI
30" to 0	0 to 10
30" to 10	0 to 15
30" to 50	0 to 25
0 to 5	0 to 50
0 to 10	0 to 100
0 to 15	0 to 150
0 to 25	0 to 200
0 to 50	0 to 500
0 to 100	0 to 1,000
0 to 150	0 to 1,500
0 to 200	0 to 2,500
0 to 300	0 to 4,000
	0 to 6,000
	0 to 10,000



Supply voltage error

0.2% max. per 10V

Output

4-20mA burden $\frac{U_B - 13V \text{ max.}}{0.02A}$

Extra Codes

/44	flange pressure connection with weld-in socket
/45	miniature flange pressure connection DN 25 to DIN 28403**
/64	flush diaphragm pressure connection 3/4" straight or NPT
/73	with cable attached
/91	absolute pressure
/93	special ranges

Ordering Example

Piezo-resistive pressure transmitter
Type: Model 430/530
Range: 0 to 50 PSI

Technical data

Case

316 SS

Parts in contact with medium

316 SS
316 SS diaphragm

Pressure connection

1/2" pipe NPT (standard)
other connections optional

Electrical connection

standard terminal box Type AF
up to AWG 16
Pg 9 cable gland
1/4" NPT connection available

Hysteresis

not exceeding 0.1%

Supply U_B

standard 13 to 30VDC
with reverse polarity protection
max. permitted noise 1V_{pp}
max. current 30mA

1-6V burden 2k Ohm min.
Adjustable by potentiometer
zero: typically > +/- 10%
span: typically > +/- 10%

Burden error

0.15% max.

Characteristic

linear

Deviation from characteristic after starting point calibration

0.6% or less according to DIN/IEC 770
0.5% BFSL
0.25% optional

Overload limit to VDI/VDE 2184

200% full scale below 2,500 PSI
150% full scale 2,500 to 6,000 PSI
120% full scale above 6,000 PSI

