

The PTF30 pressure transmitter using high performance A/D converter and microprocessor has sensor adjustment function. Its pressure sensor minimizes the effect of temperature changes in fields. The series with explosion proof structure enables to measure within the range of 0.0~350kgf/cm². Also its transmitter has explosion proof structure.

Features

- Power supply 4~20mA, 2-wire type
- Displaying the result value by using the various sub-function such as scaling, sensor adjustment, setting filters.
- Continuously rotatable display (330°)
- Explosion proof structure

CE



Specifications

Model	PTF30 Series
Power supply	15~35VDC
Display	12 Segment, LCD display (Graphic bar)
Character Size	W:6.24mm X H:10.73mm(12 Segment) W:1.45mm X H:2.54mm(Unit)
Output	DC4~20mA(2-wire) Min limit : 3.6mA, Max limit : 21.6mA
Indicating accuracy	SPAN<10% of URL : ($\pm 0.05 + 0.01 \cdot \text{URL}/\text{SPAN}$)% of SPAN SPAN $\geq$ 10% of URL : $\pm 0.2\%$ of SPAN
Ambient temperature effects	$\pm(0.075\% \times \text{URL} + 0.15\% \times \text{SPAN}) \cdots 20^{\circ}\text{C}$
Setting method	Set by key
Input sampling cycle	300ms
Function	Peak-hold, Digital input(Front key), Two unit function User compensation, Display scale, Input scale Digital filter, Lock.
Internal voltage	1000VAC 50/60Hz during a minute
Internal vibration	0.75mm Amplitude at frequency of 5~55Hz in each of directions of 2hours
Isolation Resistance	Over 100M Ω (500VDC Mega STD)
Internal noise	$\pm 240\text{V}$ the square wave noise(pulse width : 1 μs) by the noise simulator simulator
Memory retention	About 10 years(when using non-volatile memory semiconductor)
Using ambient temperature	-20~70 $^{\circ}\text{C}$ (at non-freezing status)
Storage temperature	-20~80 $^{\circ}\text{C}$ (at non-freezing status)
Using ambient humidity	0~85% RH
Case materials	Main body : Aluminum(A1Dc.8S), Cover O-Ring : Buna N
Weight	Approx.1.2kg
EX-Protection	Ex d IIC T6

※ SPAN : User Range

※ URL : Upper Range Limit

Ordering Codes

PTF30

-

G

6

N

N

-

F8

(0 ~ 7 kgf/cm²)

Process Connection

()

User Range

Mounting Bracket

N

None

B

With Bracket

HART Communication

N

None

Range

1

* 0 000~0.350kgf/cm²

2

* 0.000~1.000kgf/cm²

3

* 0.000~2.000kgf/cm²

4

* 0.000~7.000kgf/cm²

5

* 0.00~20.00kgf/cm²

6

* 0.00~35.00kgf/cm²

7

* 0.00~70.00kgf/cm²

8

* 0.0~200.0kgf/cm²

9

* 0.0~350.0kgf/cm²

A

-257mmHg~0.00kgf/cm²

C

-760mmHg~0.00kgf/cm²

F

-760mmHg~2.00kgf/cm²

H

-760mmHg~7.00kgf/cm²

M

-760mmHg~20.00kgf/cm²

O

-760mmHg~35.00kgf/cm²

Pressure Type

G

Gauge Pressure

A

Absolute Pressure

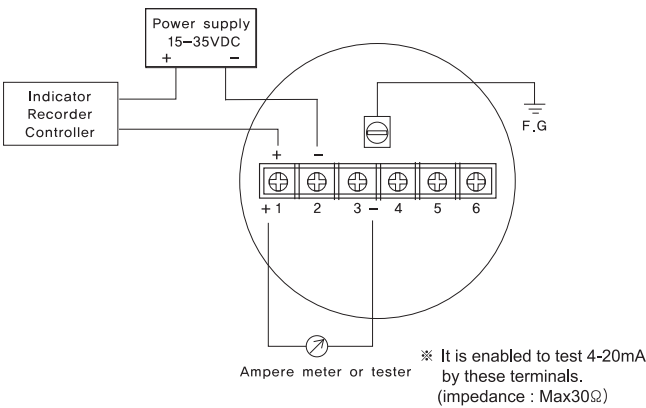
Item/Series

PTF30

High-Reliability Pressure Transmitter

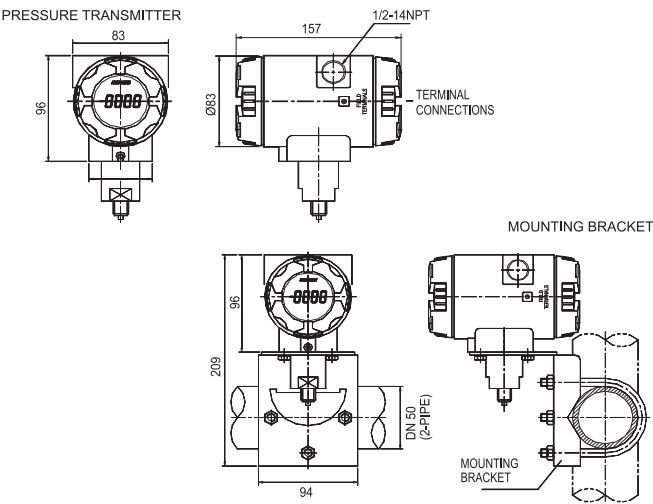
“*” mark is possible for absolute pressure

Connections



Dimensions

(Unit : mm)



A
Recorders
B
Data Loggers
C
Indicators
D
Converters
E
Controllers
F
Thyristor Units
G
Transmitters

TPS20 Series
IDP
IGP-10 / IAP-10
KT - 302H
PTF30 Series
KT - 502H
CN-502H/ CN-501H
SS - 5300