

Yamatake-Honeywell

SPECIFICATION

OBsolete

Specifications

Measuring range: 0~5,000 to 0~50,000mmH₂O, continuously adjustable.

Process connections:

- HP side: Flange connection
 Flush diaphragm type
 80 mm-JIS 10K, 30K (RF) equivalent flange
 3"-ANSI 150, 300 (RF) equivalent flange
 Extended diaphragm type
 100 mm-JIS 10K, 30K (RF) equivalent flange
 4"-ANSI 150, 300 (RF) equivalent flange
 Length of extended part; 100 or 150 mm

LP side;

- PT $\frac{1}{2}$ (ISO R7 $\frac{1}{2}$ ") or NPT $\frac{1}{2}$ tap thread Carbon steel, SUS316 st. st., Titanium and PVC cover materials
 PF $\frac{1}{2}$ -A (ISO R228 $\frac{1}{2}$ ") tap thread Monel lining and Tantalum lining cover materials

Electrical conduit connection: PF $\frac{1}{2}$ -A (ISO R228 $\frac{1}{2}$ ") tap thread

Power supply: DC 21.6~44V

Output: 4~20 mA DC (External load; 600 ohms at 24V, 1,400 ohms at 42V)

Pressure limit: -0.5 kg/cm²G to maximum flange rated pressure.

Temperature limit:

- At meter body (process fluid); -40~+120°C
 At transmitter (ambient); -30~+80°C

Humidity limit: 10~90% RH

Overload protection: To maximum flange rated pressure.

Damping adjustment: Continuously adjustable. (Time constant is 30 sec. or more at maximum damping.)

Transmitter housing:

Explosion-proof type; When with an explosion-proof terminal box, Class d2G4 of JIS C0903 code approved (JIS F8001 Class 3 splash-proof included). Also suitable for the NEC Class 1, Group D, Division 1.

Weatherproof type; Equivalent to JIS F8001 Class 3 splash-proof construction.

Intrinsic safety type; Class i3nG5 of JIS C0903 code for hazardous location, including above splash-proof construction.

(Note: Intrinsic safety type

Power supply; DC23~27.5V

Ambient temperature limit; -30~+60°C)

Suppression and elevation (zero spring):

Spring No. 1

- Suppression; Up to 23,000mmH₂O
 Elevation; Up to 15,000mmH₂O
 (Span plus elevation; Up to 50,000mmH₂O)

(Note: Suppression and elevation exceeding above limits are also available as an option.)

Accuracy: $\pm 0.5\%$ FS

Dead band: Within 0.1% FS (Sensitivity is 0.05% FS.)

Materials:

HP side process connecting flange;
 Wet-part; SUS 316 st. st., Titanium, Monel lining and Tantalum lining

Flange; Carbon steel (SF 45) and SUS 316 st. st.

LP side cover;

Carbon steel (SF 45), SUS 316 st. st., Titanium, Monel lining, Tantalum lining and PVC (Pressure limit -0.1~+15 kg/cm²G, and temperature limit 0~55°C)

Seal diaphragm; SUS316 st. st., Titanium, Monel and Tantalum

Wet-part gasket; Teflon

Indicator window;

Explosion-proof type . . . Glass

Weather-proof and intrinsic safety type . . . Poly-carbonate

Transmitter case; Aluminum alloy shell mold

Finish: Acryl baking finish (For corrosion-resistant and silver finish, refer to the optional specification.)

Color of finish: Cover; Light beige Case; Dark beige

Mounting: Directly flange mounted to the vessel.

Net weight: Explosion-proof type; 20.7kg with 80mm-JIS 10K flange (Add 1.6kg for explosion-proof terminal box with cable adapter.) Weatherproof type; 16.7kg
 Intrinsic safety type; 16.7kg

Options (Accessories)

Following accessories are optionally available.

Item (1), (2) are the standard options.

(1) **High suppression and high elevation:**

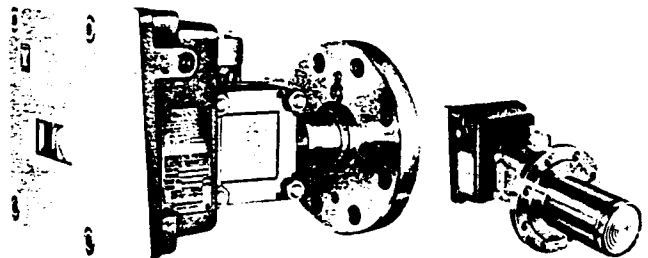
Spring No. 2

- High elevation; 15,000~45,000mmH₂O
 (Span plus elevation; Up to 50,000mmH₂O)

Spring No. 3

- High suppression; 23,000~50,000mmH₂O

ELECTRONIC DIFFERENTIAL PRESSURE TRANSMITTER FLANGE TYPE (HIGH DIFFERENTIAL PRESSURE RANGE) MODEL ; NDI 61



- (2) **Explosion-proof terminal box:** 3 way.
 Flame-proof conduit screw-coupling type. (When flame-proof packing type is employed, the JIS explosion-proof requirements can be met by using the adapter is addition.)
- Item (3)~(11) are the semi-standard options.
- (3) **Half range:** (Y 20)
 Measuring range; 0~2,500 to 0~25,000mmH₂O
 Accuracy; $\pm 0.75\%$ FS ($\pm 1.0\%$ FS for span less than 5,000 mmH₂O)
 Suppression; Up to 50,000mmH₂O
 Elevation; Up to 47,500mmH₂O (Span plus elevation; Up to 50,000mmH₂O)
- (4) **Vacuum use:** (Y 23)
 Static pressure range; -1 kg/cm²G to HP side flange rated pressure.
 (Note: Rangeability needing absolute zero pressure varies with the measuring fluid temperature.)
 Damping adjustment; Fixed
 Process connections (LP side); Top or bottom
- (5) **Steam jacket:** (Y 29)
 Maximum working pressure; 10 kg/cm²G (HP side), 50 kg/cm²G (LP side)
 Maximum working temperature;
 200°C (HP side), 300°C (LP side)
 (Body temp. 120°C, Flange temp.; St'd type 120°C Hi-temp. type . . . 200°C)
 Connection; PT $\frac{1}{4}$ (ISO R7 $\frac{1}{4}$ ") or NPT $\frac{1}{4}$ tap thread
 Material; Carbon steel (SF 45)
- (6) **PTB (West Germany) approved intrinsic safety** (Y 59)
 Power supply; DC23~28V
 Ambient temperature limit; -30~+40°C
- (7) **High temperature use:** (Y 62)
 Working temperature range;
 Fluid; -10~+200°C
 Ambient; -10~+80°C
 Sealing liquid; Special silicon oil
- (8) **SUS 304 stainless steel bolts** (Y 66)
- (9) **Blind type transmitter** (Y 126)
- (10) **Corrosion-resistant and silver finish** (Y138A~D)
 Corrosion-resistant (Acryl baking) finish (Y 138A);
 Resistance for corrosive gases.
 Corrosion-proof (Epoxy baking) finish (Y138B);
 Resistance for corrosive liquids.
 Silver-normal (Acryl baking) finish (Y 138C);
 Protection for temperature rise of device caused by direct sun light, radiation heat, etc.
 Silver-corrosion-resistant (Acryl baking) finish (Y 138D);
 Protection for above-mentioned temperature rise and resistance for corrosive gases.
 (Note: Silver finish is not applicable for alkaline gases.)
- (11) **Induction lightning arrester:** (Y 145)
- (12) **For chlorine gas:**
 Sealing liquid; Fluorine oil
 Seal diaphragm mat'l; Tantalum
 Working temp. limit; -20~+80°C
 Min. working pressure; 0kg/cm²G

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