

Yamatake-Honeywell

SPECIFICATION

The Low Cost Electronic Pressure Transmitter employs a strain gauge and a linear IC amplifier, and convert a pressure into a current signal of 4 ~ 20mA DC.

Features

- 1) High performance, high reliability, yet low cost. Compact and light weight.
- 2) Moving parts are reduced to minimum. Effect of rake and vibration are negligibly small.
- 3) The strain gauge is sealed against external air with the bellows, ensuring stable operation for long period.
- 4) Range change of the pressure replace the bellows easily.
- 5) The housing is a splash-proof wall-mount type, and can be installed with its right or left side surface closely contacted with other object.
- 6) Lloyd's register of Shipping Type Approval No. 301274

Specifications

Measuring range: 0 ~ 2, 0 ~ 4, 0 ~ 6, 0 ~ 10, 0 ~ 20,
0 ~ 35, 0 ~ 50, 0 ~ 70, 0 ~ 100 kgf/cm²

(For other ranges than the above and for the ranges of compound pressure meters, please contact our representative in your area.)

Overload protection: Up to 1.3 times of maximum span.

Process piping connection: PT $\frac{1}{4}$ (ISO R7 $\frac{1}{4}$ ") or $\frac{1}{4}$ NPT tap thread.

Electrical wiring:

Connecting port; Marine electrical-wire through-type JIS F 8801A, Type 20 C

Terminals; Marine solderless-connection terminal board JIS F8813C, Type 20

Power supply: DC 24V \pm 1V

Power consumption: Approx. 1.3W

Output: 4 ~ 20mA DC (3-wire system)

External load: 0 ~ 600 Ω

Accuracy: \pm 0.75% FS (\pm 1.5% FS*)

Dead band: Within 0.1% FS (Within 0.3% FS*)

Repeatability: Within 0.3% FS (Within 1% FS*)

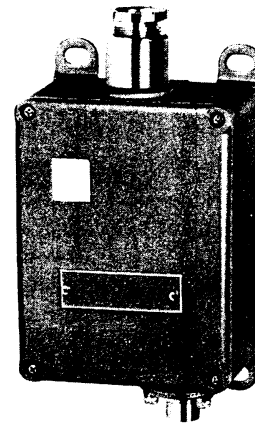
(Remarks: *Values in the parentheses are applied for the range of 0 ~ 100 kgf/cm².)

Operating condition:

Temperature; -30 ~ + 70°C (Fluid and ambient)

Humidity; 10 ~ 90% RH

LOW COST ELECTRONIC PRESSURE TRANSMITTER MODEL; NW8



NW8

Material:

Pressure receiver (Bellows and pressure receiving port);
SUS 316 L

Housing construction; Aluminum alloy

Finish: Acryl baking finish

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

Color of finish: Dark beige (Munsell 10YR 4.7/0.5)

Housing construction: JIS F8001 Class 1 splash-proof

Mounting: Wall mount type

Net weight: Approx. 2 kg

Option (Accessory)

Following accessory is optionally available.

(1) **Corrosion-resistant and silver finish (Semi-standard spec. (Y138A ~ D))**

Corrosion-resistant (Acryl baking) finish (Y138A);

Resistance for corrosive gases.

Corrosion-proof (Epoxy baking) finish (Y138B);

Resistance for corrosive liquids.

Silver-normal (Acryl baking) finish (Y138C);

Protection for temperature rise of device caused by direct sun light, radiation heat, etc.

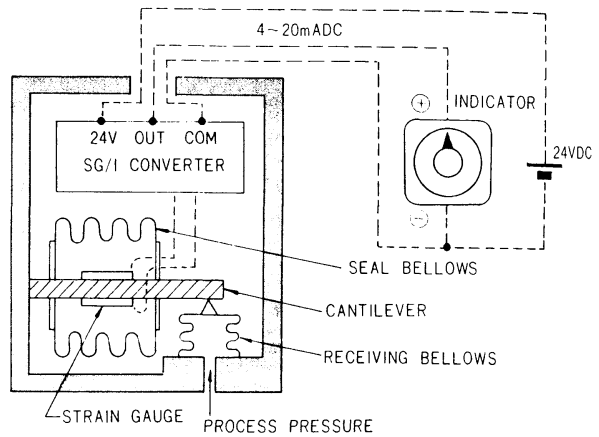
Silver-corrosion-resistant (Acryl baking) finish (Y138D)

Protection for above-mentioned temperature rise and resistance for corrosive gases.

(Note: Silver finish is not applicable for alkaline gases.)

Principle of Operation

The pressure to be measured is converted into a force by the receiver bellows. This force is applied to the cantilever on which the strain gauge is bonded to detect the strain exercised on the cantilever. The strain gauge output (resistance variation) is applied to the strain-gauge/current (SG/I) which converts the strain gauge output into a standard current signal of 4 ~ 20 mA DC which is transmitted to an external circuit. The bonded section of the strain gauge is constructed in a dust-proof, moisture-proof structure with a seal bellows so that the mechanism is perfectly sealed against external air and the instrument operates reliably with a very long service life.



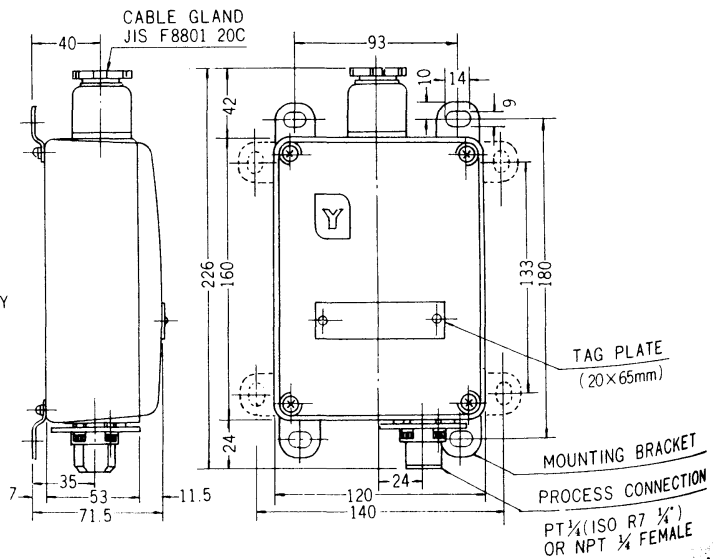
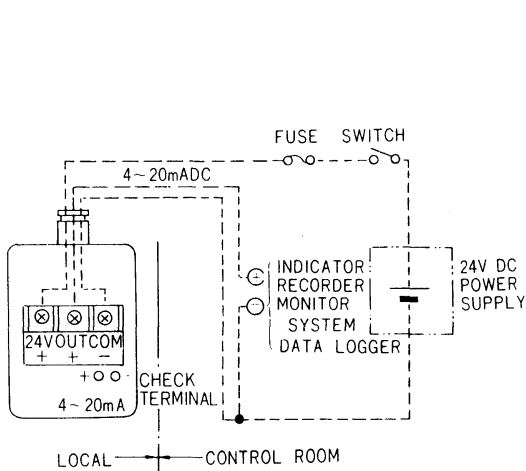
Model Number Table

Ex: NW8-202-X

Basic Model No.	Selection		Option	Description
	Element	Measuring Range		
NW 8	-2			Low Cost Electronic Pressure Transmitter
		02	0 ~ 2 kgf/cm ²	
		04	0 ~ 4 kgf/cm ²	
		06	0 ~ 6 kgf/cm ²	
		10	0 ~ 10 kgf/cm ²	
		20	0 ~ 20 kgf/cm ²	
		35	0 ~ 35 kgf/cm ²	
		50	0 ~ 50 kgf/cm ²	
		70	0 ~ 70 kgf/cm ²	
		00	0 ~ 100 kgf/cm ²	
		- X	No Option	

Note:
When specifying semi-standard option (Y□), please write as: NW8Y-202-X (Y□).

Connections & Dimensions



*Specifications are subject to change without notice.

*Reference instruction manual FP-7029

Ordering Information

When ordering, please specify:

1) Model No.

Hone

EAS Surge I

The EAS Surge commences pressure and can result. A Surge as the primary damage and to failure of the backup system.

The EAS module decrease in compressor life can also be decreased across the main.

The EAS signal immediately to stop compressor outputs that cause.

The relay output first surge cycle from a faulty pump (but not faulty) cycle. This means compressor, an prevention feature.

If you don't have to be switched (controller fault, the antisurge valve second surge (stopping the compressor) and a combination in some applications relief at the first.

BENEFITS

- Lower Cost of damaging
- Lower Compressor life
- No Noticeable Rise due to EAS.