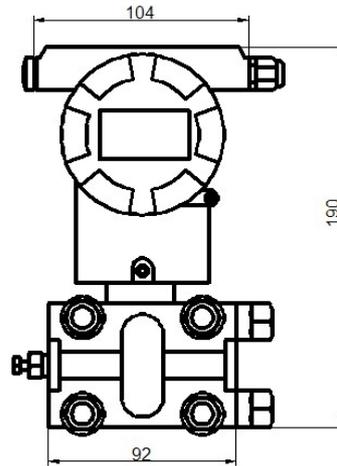


QP-86D Differential Pressure Transmitter



Dimensions :(unit: mm)



Span:

Range code	Range		Measure span
	MIN	MAX	
4	0.374KPa	37.4KPa	-37.4~37.4KPa
5	1.868KPa	186.8KPa	-186.8~186.8KPa
6	6.9KPa	690KPa	-690~609KPa
7	20.68KPa	2068KPa	-690~609KPa

QY Electronic Co Ltd

Address: No. 1032, Xinghan Road, Hantai District, Hanzhong, Shaanxi, China (Mainland)

Website: www.qysensor.com

TEL: +86-(0)916-2257989

E-mail: info@qysensor.com

Zip: 723000

Product introduction

Output:

Analog output: two wire 4~20mADC

Digital output: two wire 4~20mADC and variable digital signal in accordance with HART AGREEMENT.

Power: supply voltage 12.5~45VDC

Limit load: Max load resistor R_{max} in loop decided by the supply voltage, see the below drawing. HART AGREEMENT require the load resistor not less than 250 Ω , not more than 600 Ω

Communication distance: Max. 1.5km, multi-address communication can connect 15 smart transmitters max.

Output display: 4 digital display, 5 digit LCD display, pointer type.

Marking: Exiall CT5; explosion-proof isolation type

Zero offset: can positive offset or negative offset, but can not overstep the utmost value

Temperature: environment temperature -40~85 $^{\circ}\text{C}$ (When choose LCD: -20~70 $^{\circ}\text{C}$)

Medium temperature: -40~104 $^{\circ}\text{C}$

Static pressure and one side overload: 3.45Kpa(Absolute) 31.2MPa(Gauge)

Relative humidity: 5 ~98%RH

Startup time: less than 5 sec.

Capability change: less than 0.16cm³

Damp adjust: 0.20~25sec.

Malfunction alarming: If appear malfunction, automatism diagnose function will out 3.9 or 21.0mA

Protection: To avoid the datas are modified random, can utilize Software or protect switch lock the memory data

Reference condition: zero is the lower limit and not offset, temperature 25 $^{\circ}\text{C}$, Atmospheric pressure, 24VDC power, silicon oil, diaphragm 316L, data adjust range the same as the up and lower limit of the range

Accuracy: $\pm 0.1\%$, adjust range $\geq 0.1\text{URL}$

$\pm [0.05 + (0.005\text{URL}/\text{span})]\%$, adjust range 0.025URL~0.1UPL

$\pm [0.01 + (0.006\text{URL}/\text{span})]\%$, adjust range 0.01URL~0.025URL Note: accuracy have include the influence of linearity, hysteresis and repeatability

Stability: $\pm 0.1\%$ URL/year

Tem.influence: $\pm (0.05\% \text{URL} + 0.15\% \text{span})/20^{\circ}\text{C}$

Static pressure influence: \pm zero error 0.1URL/6.9Mpa

Libration effect: withstand frequency 200Hz at any direction, arouse error $\pm 0.05\%$ URL

Power influence: 0.005%/V

Load influence: no load influence.

Install position influence: about 250Pa zero offset, can be eliminate via calibration, no range influence.

RF interference: drift is $\pm 0.1\%$ span in the condition of 30-1000MHz frequency and the most field intensity 10V/m

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