DIFFERENTIAL PRESSURE TRANSMITTER

DPT35H-Series

Weather Proof, IP68

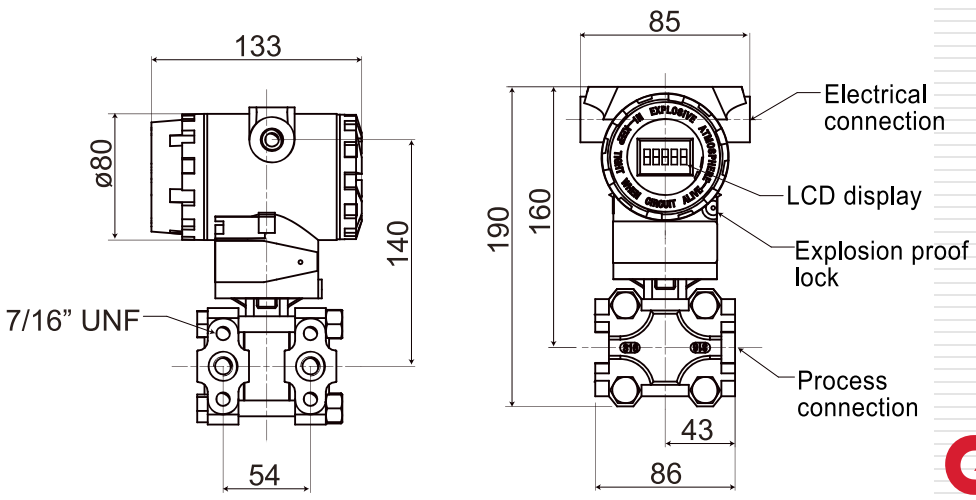
Output 4~20mA, 2-Wire, HART

Measurement
0~160mmH_2O~200kg/cm^2

TECHNICAL DATA

- Housing material: die cast aluminum alloy with paint
- Electrical connection: ½"NPT(F), standard
- Ambient temperature effects: ≤ ±0.2% / 10˚C
- Response time: 0.25s
- Power effects: ≤ ±0.005% / URL / V
- Ambient temperature limits: -40˚C ~ +85˚C
- Ambient humidity limits: ≤ 95% RH
- Power supply: 10~32V DC
- Calibration range unit: %, output current, user scaled value, Pa, kPa, MPa, mbar, bar, psi, mmH2O
- Output signal: 4 to 20mA, 2-wires HART
- Diaphragm material: SS316L, standard ; and others material such Hastelloy C-276, Monel, Tantalum, Titanium...please contact with the manufacturer at the first.
- Cover O-rings: Buna-N
- Mounting Bracket: 2" pipe mounting, SS316 or SS304

DIMENSIONS



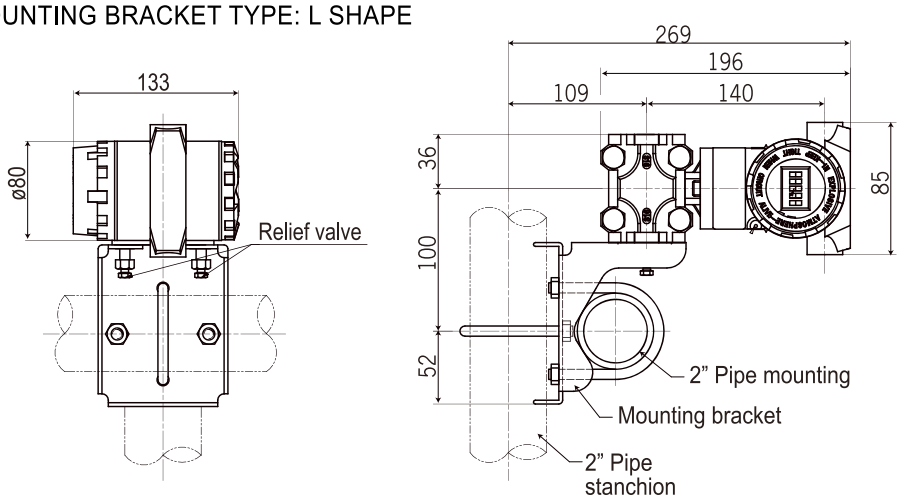
GME

SPAN & RANGE LIMIT

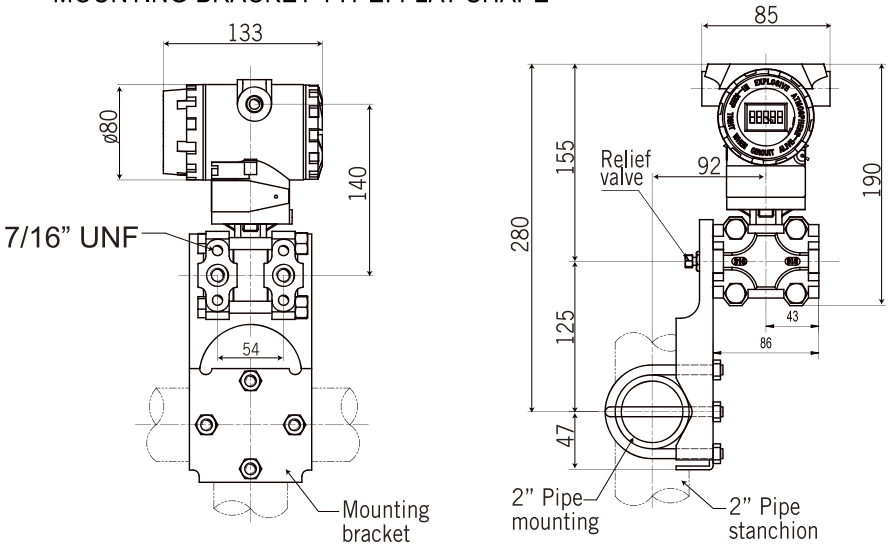
Measurement Range	Measurement Type	Span Range	Max. Limit	Low Limit	Overrange Limit	Accuracy
-160~0~160 mmH2O	Lower range value type	16 ~ 160mmH2O	160mmH2O	-160mmH2O	20 kg/cm²	±0.1% F.S basic on 160mmH2O
-600~0~600 mmH2O	Diff. Pressure type	16 ~ 600mmH2O	600mmH2O	-600mmH2O	40 kg/cm²	±0.1% F.S basic on 600mmH2O
	Gauge pressure type	16 ~ 600mmH2O	600mmH2O	-600mmH2O	10 kg/cm²	
-4000~0~4000 mmH2O	Diff. Pressure type	600 ~ 4000mmH2O	4000mmH2O	-4000mmH2O	100 kg/cm²	±0.1% F.S basic on 4000mmH2O
	Gauge pressure type	600 ~ 4000mmH2O	4000mmH2O	-4000mmH2O	10 kg/cm²	
-2~0~2 kg/cm²	Diff. Pressure type	0.4 ~ 2 kg/cm²	2 kg/cm²	-2 kg/cm²	100 kg/cm²	±0.2% F.S basic on 2 kg/cm²
	Gauge pressure type	0.4 ~ 2 kg/cm²	2 kg/cm²	-2 kg/cm²	20 kg/cm²	
	Absolute pressure type	0.4 ~ 2 kg/cm²	2 kg/cm²	400mmH2O	20 kg/cm²	
-10~0~10 kg/cm²	Diff. Pressure type	1.8 ~10 kg/cm²	10 kg/cm²	-10 kg/cm²	100 kg/cm²	±0.1% F.S basic on 10 kg/cm²
	Gauge pressure type	1.8 ~10 kg/cm²	10 kg/cm²	-10 kg/cm²	40 kg/cm²	
	Absolute pressure type	1.8 ~10 kg/cm²	10 kg/cm²	-10 kg/cm²	40 kg/cm²	
-25~0~25 kg/cm²	Diff. Pressure type	8 ~ 25 kg/cm²	25 kg/cm²	-25 kg/cm²	100 kg/cm²	±0.1% F.S basic on 25 kg/cm²
	Gauge pressure type	8 ~ 25 kg/cm²	25 kg/cm²	-25 kg/cm²	40 kg/cm²	
	Absolute pressure type	8 ~ 25 kg/cm²	25 kg/cm²	-25 kg/cm²	40 kg/cm²	
-100~0~100 kg/cm²	Diff. Pressure type	20 ~ 100 kg/cm²	100 kg/cm²	-100 kg/cm²	100 kg/cm²	±0.2% F.S basic on 100 kg/cm²
	Gauge pressure type	20 ~ 100 kg/cm²	100 kg/cm²	-100 kg/cm²	150 kg/cm²	
	Absolute pressure type	20 ~ 100 kg/cm²	100 kg/cm²	400mmH2O	150 kg/cm²	
-200~0~200 kg/cm²	Gauge pressure type	80 ~ 200 kg/cm²	200 kg/cm²	-200 kg/cm²	300 kg/cm²	±0.5% F.S basic on 200 kg/cm²
	Absolute pressure type	80 ~ 200 kg/cm²	200 kg/cm²	400mmH2O	300 kg/cm²	

MOUNTING BRACKET & OVAL FLANGE ACCESSORIES

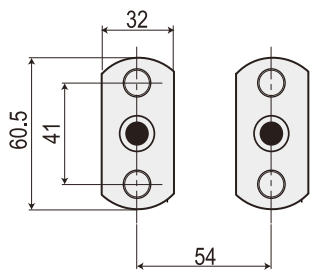
MOUNTING BRACKET TYPE: L SHAPE



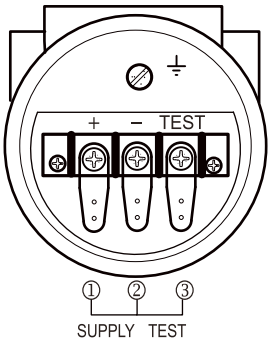
MOUNTING BRACKET TYPE: FLAT SHAPE



OVAL FLANGE: ¼"NPT to ½"NPT

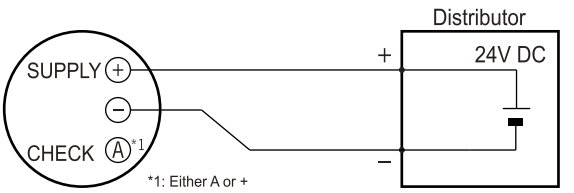


TERMINAL WIRING



SUPPLY + −	① ②	Power supply and output terminals
CHECK + −	③ ②	External indicator (ammeter) terminals*1*2
or		or
ALARM + −	③ ②	Status contact output termnals*2 (when / AL is specified)
⏚		Ground Terminal

*1: When using an external indicator or check meter, the internal resistance must be 10Ω or less. A check meter or indicator cannot be connected when / AL option specified.
*2: Not available for Foundation Fieldbus and PROFIBUS PA communication types.

CONNECTION	DECRIPTION
Analog Output 4~20mA, HART	

HOW TO ORDER A DIFFERENTIAL PRESSURE TRANSMITTER, MODEL DPT35H

1 Basic Model DPT35H

2 Measurement Type :
- D Differential pressure type
- G Gauge pressure type
- A Absolute pressure type

3 Measurement Rrange :
- 2 -160~0~160 mmH_2O
- 3 -600~0~600 mmH_2O
- 4 -4000~0~4000 mmH_2O
- 5 -2~0~2 kg/cm^2
- 6 -10~0~10 kg/cm^2
- 7 -25~0~25 kg/cm^2
- 8 -100~0~100 kg/cm^2
- 9 -200~0~200 kg/cm^2

4 Output Signal :
- S 4~20mA, 2-wire HART

5 Electrical Connection :
- 1 ½"NPT(F), two electrical connection without blind plugs

6 Process Connection :
- 0 ¼"NPT(F), standard
- 1 ½"NPT(F) with oval flange

7 Process Connection / Diaphragm / Relief Valve Material :
- S SS316 / SS316L / SS316
- O Option (please contact with the manufacturer for others diaphragm material)

8 Mounting Bracket :
- N Without
- S4F SS304, 2" pipe mounting, flat shape
- S4L SS304, 2" pipe mounting, L shape
- S6F SS316, 2" pipe mounting, flat shape
- S6L SS316, 2" pipe mounting, L shape

9 Set Range :
Please fill out the requirement set range directly.

To order, select one item from each category (when applicable) to creat a part number.
EXAMPLE :

1	2	3	4	5	6	7	8	9
DPT35H	D	6	S	1	0	S	S4F	0.5 kPa

Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing, modifications may take place and materials specified may be replaced by others without prior notice.