

Sr.No.	Description	Quantity Required (Nos.)
1	2	3
1	Differential pressure transmitters HART with LCD Display, Range: 0-250 Inch H ₂ O, Protection class EExd ia IIC T6, IP 67	10
2	Differential pressure transmitters HART with LCD Display, Range: 0-840 Inch H ₂ O (0-2100mbar), Protection class EExd ia IIC T6, IP 67	8
3	Gauge Pressure transmitters HART with LCD Display, Range: -1~ +5 bar Protection class EExd ia IIC T6, IP 67	10
4	Gauge Pressure transmitters HART with LCD Display, Range: 0~ 40 bar Protection class EExd ia IIC T6, IP 67	12
5	Absolute Pressure transmitters HART with LCD Display, Range: 0~ 760 mmHg Protection class EExd ia IIC T6, IP 67	10
Detailed Specification are attached on separate sheets.		

SPECIFICATION OF DIFFERENTIAL PRESSURE TRANSMITTERS (HART).**1. Differential Pressure Transmitters (HART)****Quantity: 10 No's**

Type:	Electronic d/p cell transmitter for differential pressure measurement.
Output:	2-wire, 4 to 20 mA DC with digital communication (HART protocol).
Material:	High side cover and Sensor material = Monel, Fill liquid Silicone.
Span:	Span limit: 0 to 250 inches H ₂ O.
Integral indicator:	Square Root digital indicator with selectable range.
Process Connection:	1/2" NPT (F).
Housing:	Conduit connection and housing material (PG 13.5, 316 SS Housing (Electrical Safety Codes "E", "D", "N", and "H").
Protection class:	Electrical Safety (CENELEC Certified Intrinsically Safe, EEx, ia, IIC T4, Zone 0).
Ingress Protection:	IP67
Bracket and Bolt:	Stainless Steel Bracket with Stainless Steel Bolts.
Vent Screw:	Vent screw in process connector.
Cable Gland:	SS, PG 13.5 cable gland with code "1" and "3".
Connector:	316SS, connecting 12 mm tubing to 1/2" process connector.
Documents:	Full instruction book.
Warranty:	Five years Warranty.

2. Differential Pressure Transmitters (HART).**Quantity: 08 No's**

Type:	Electronic d/p cell transmitter for differential pressure measurement.
Output:	2-wire, 4 to 20 mA DC with digital communication (HART protocol).
Material:	High side cover and Sensor material = Monel, Fill liquid Silicone.
Span:	Span limit: 0 to 840 inches H ₂ O, 0 - 2100 mbar
Integral indicator:	Square Root digital indicator with selectable range.
Process Connection:	Process connector, 1/2" NPT (F).

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Housing:	Conduit connection and housing material (PG 13.5, 316 SS Housing (Electrical Safety Codes "E", "D", "N", and "H").
Protection Class:	Electrical Safety (CENELEC Certified Intrinsically Safe, EEx, ia, IIC T4, Zone 0).
Ingress Protection:	IP67
Bracket and Bolt:	Stainless Steel Bracket with Stainless Steel Bolts.
Vent Screw:	Vent screw in process connector.
Cable Gland:	SS, PG 13.5 cable gland with code "1" and "3".
Connector:	316SS, connecting 12 mm tubing to 1/2" process connector.
Documents:	Full instruction book.
Warranty:	Five years Warranty.

Note:

- i. Kidney Flanges and gasket should be included with DPT in quotation.
- ii. Calibration / maintenance technical literature in English is also required.
- iii. Make / Made, country of origin must be mentioned in quotation.
- iv. On-site inspection at supplier's premises is mandatory in the scope of supply.
- v. Recommended maintenance schedule [Preventive (PM), Predictive (PDM,)] by vendor in English is required

SPECIFICATION OF PRESSURE TRANSMITTERS HART

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3. GAUGE PRESSURE TRANSMITTER HART

Quantity = 10 No's

Type:	Electronics, direct connected gauge pressure transmitter.
Output:	2-wire, 4 to 20 mA DC with digital communication (HART protocol) with LCD display.
Process Connection:	Process connectors=1/2" NPT (M) 316LSS,
Sensor material:	316LSS, Filled liquid=Silicon.
Span:	Span limit; -1 ~ + 05 Bar
Housing:	Conduit connection and housing material; PG 13.5, Aluminum housing with electrical safety code "F", "N", "H".
Protection Class:	EExd ia IIC T4.
Ingress Protection:	IP 67
Isolation Valve:	Block and bleed valve 1/2"M (NPT) x 1/2"FM (NPT), 316SS body with Monel trim, NACE approved.
Cable Gland:	Conduit connector, SS PG 13.5 cable gland for use with conduit connection code "2" and "4".
Technical Literature:	Full instruction book.
Warranty:	Five year warranty.

4. GAUGE PRESSURE TRANSMITTER HART

Quantity = 12 No's

Type:	Electronics, direct connected gauge pressure transmitter.
Output:	2-wire, 4 to 20 mA DC with digital communication (HART protocol) with LCD display.
Process Connection:	Process connectors=1/2" NPT (M) 316LSS,
Sensor material:	316LSS, Filled liquid=Silicon.
Span:	Span limit; 0 ~ 40 Bar
Housing:	Conduit connection and housing material; PG 13.5, Aluminum housing with electrical safety code "F", "N", "H".
Protection Class:	EExd ia IIC T4.
Ingress Protection:	IP 67
Isolation Valve:	Block and bleed valve 1/2"M (NPT) x 1/2"FM (NPT), 316SS body with Monel trim, NACE approved.
Cable Gland:	Conduit connector, SS PG 13.5 cable gland for use with conduit connection code "2" and "4".
Technical Literature:	Full instruction book.
Warranty:	Five year warranty.

5. ABSOLUTE PRESSURE TRANSMITTER HART

Quantity = 10 No's

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Type: Electronics, direct connected Absolute pressure transmitter.

Output: 2-wire, 4 to 20 mA DC with digital communication (HART protocol) with LCD display.

Process Connection: Process connectors=1/2" NPT (M) 304SS,

Sensor material: 316SS, Filled liquid=Silicon.

Span: 0-760 mmHg Absolute (Calibrated should be at 50-760mmHg).

Housing: Conduit connection and housing material; PG 13.5, Aluminum housing with electrical safety code" F", "N", "H".

Protection Class: EEx ia IIC T4.

Ingress Protection: IP 67

Isolation Valve: Block and bleed valve 1/2"M (NPT) x 1/2"FM (NPT), 316SS body with Monel trim, NACE approved.

Cable Gland: Conduit connector, SS PG 13.5 cable gland for use with conduit connection code "2" and "4".

Technical Literature: Full instruction book.

Warranty: Five year warranty.

Note:

- i. Calibration/ maintenance technical literature in English is required.
- ii. Make/Made, country of origin must be mentioned in quotation.
- iii. On-site inspection at Manufacturer's premises should be included in quotation.
- iv. Recommended maintenance schedule [Preventive (PM), Predictive (PDM,)] by vendor in English is required.
- v. DPT style is not acceptable.