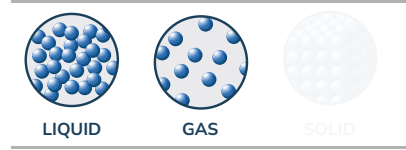


MSP3100

Differential Pressure Transmitter



OVERVIEW

Operation

MSP3100 Gauge, absolute and differential pressure measurement in gases, steam or liquids in all areas of process control field.

Application

- Level, volume or mass measurement in liquids.
- Working with detecting element.

Features

- Compact design
- Protection type IP67 or EX-proof as optional
- High sensitivity
- MEMS technology
- Cost effective
- Short delivery
- High pressure
- High long-term stability



OPERATING DATA

Temperature Limit

-40...125°C

Stronge Temperature Limit

-45°C...125°C

Stability

±0.25% of URL for 5

Accuracy

±0.075% URL

(±0.055% optional)

Humidity Limit

0-100% relative

Temperature Drift

±0.03% of URU10°C Full

Overpressure

Scale ranges x3

Weight

4 kg(without connection)

Turndown Ratio

10:1

MEASURING RANGES

Measuring Range

0-10 mbar to 0-40 bar

Overpressure

160 bar (250 bar opt.)

MATERIALS

Wetted Parts

AISI 316

Others

On request

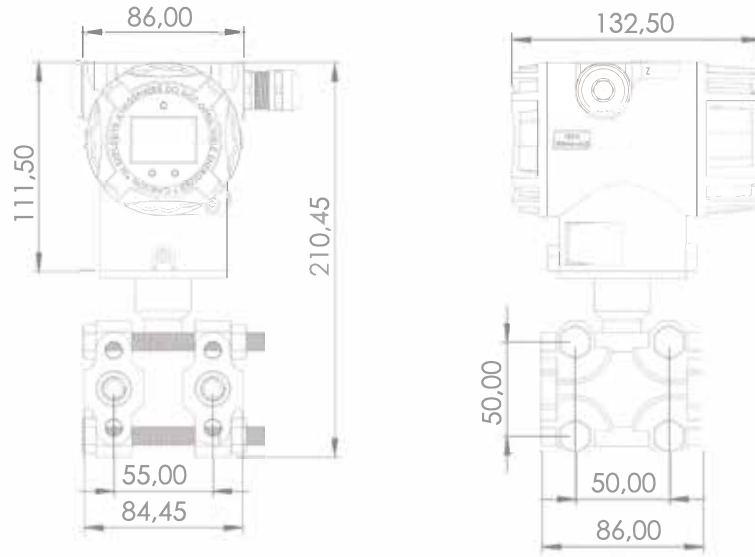
CONNECTION

Standart

Please refer ordering table.



TECHNICAL DRAWINGS AND DIMENSIONS



ELECTRICAL DATA

Output

2 wires, 4-20 mA
2 wires, 4-20 mA+HART MODBUS
(no analog output)

Power Supply

10.5-55 VDC power

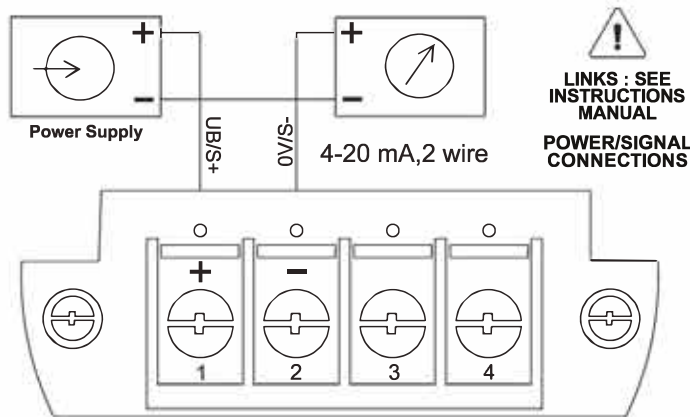
Electrical Connection

M20x1.5 - Aluminium or AISI316SS as optional

Enclosure

IP67

WIRING



MEASURING RANGES

Code	Range (DIN Flange)	Unilateral Overpressure	Static Pressure
001	-10...+10 mbar	160 bar	160 bar
002	-60...+60 mbar	160 bar	160 bar
003	-400...+400 mbar	160 bar	160 bar
004	-1...+1 bar	160 bar	250 bar
005	-2,5...+2,5 bar	160 bar	250 bar
006	-10...+10 bar	160 bar	400 bar
007	-30...+30 bar	160 bar	400 bar



ORDERING

Model	
MSP3100	Differential Pressure Transmitter

Approval	
N	None
Xi	II 1/2G Ex ia IIC T4 Gb(Ga)
Xd	Ex d IIC T6, T5, T4

Output	
H	4-20 mA + HART
M	MODBUS

Display	
A	No display
L	LCD

Measuring Range	
XXX	Please see "Measuring range table"

Calibration	
1	Sensor range, mBar/Bar
2	Sensor range, kpa/Mpa
3	Sensor range, mmH2O/mH2O
4	Sensor range, psi

Diaphragm Material	
1	AISI 316
2	Alloy C-276
X	On request

Process Connection	
A	Female thread 1/4" NPT
B	Female thread 1/2" NPT
C	Male thread M20x1.5

Overpressure	
A	160 bar
B	250 bar

Process Connection Material	
G	AISI 304
N	AISI 316
H	Hastelloy C

Mounting Bracket	
A	None
U	Mounting bracket for pipe

