

Smart Pressure Transmitter

MSP3200L



LIQUID



GAS



OVERVIEW

Operation

MSP3200L series pressure transmitters are suitable for liquids, gas pressure measuring and controlling in the moderate media, with sensor probe working very well with long term stability at the high temperature of 85°C

Features

- Protection type IP67
- Automatic Ambient Temperature Compensation
- High sensitivity
- MEMS technology
- Cost effective
- High accuracy
- Continuous Self-Diagnostic Function
- Long-term stability
- High reliability

Application

- Pressure measurement and controlling for liquids, gas
- Working with detecting element
- Oil, petrochemical and chemical industries
- Pulp and paper
- Machinery and shipbuilding

OPERATING DATA

Process Temp. Limit	-40...120°C
Ambient Temperature	-40...85°C
Storage Temp. Limit	-40...85°C
Stability	±0.25% of URL for 5 years
Accuracy	±0.075% URL
Humidity Limit	0-100% relative
Temperature Drift	±0.03% of URL/10°C
Overpressure	Full scale ranges x3
Weight	1.7 kg (without connection)
Turndown Ratio	10:1
Enclosure	IP67
Connection	Flanged

MEASURING RANGES

Overpressure Range	0-700 bar
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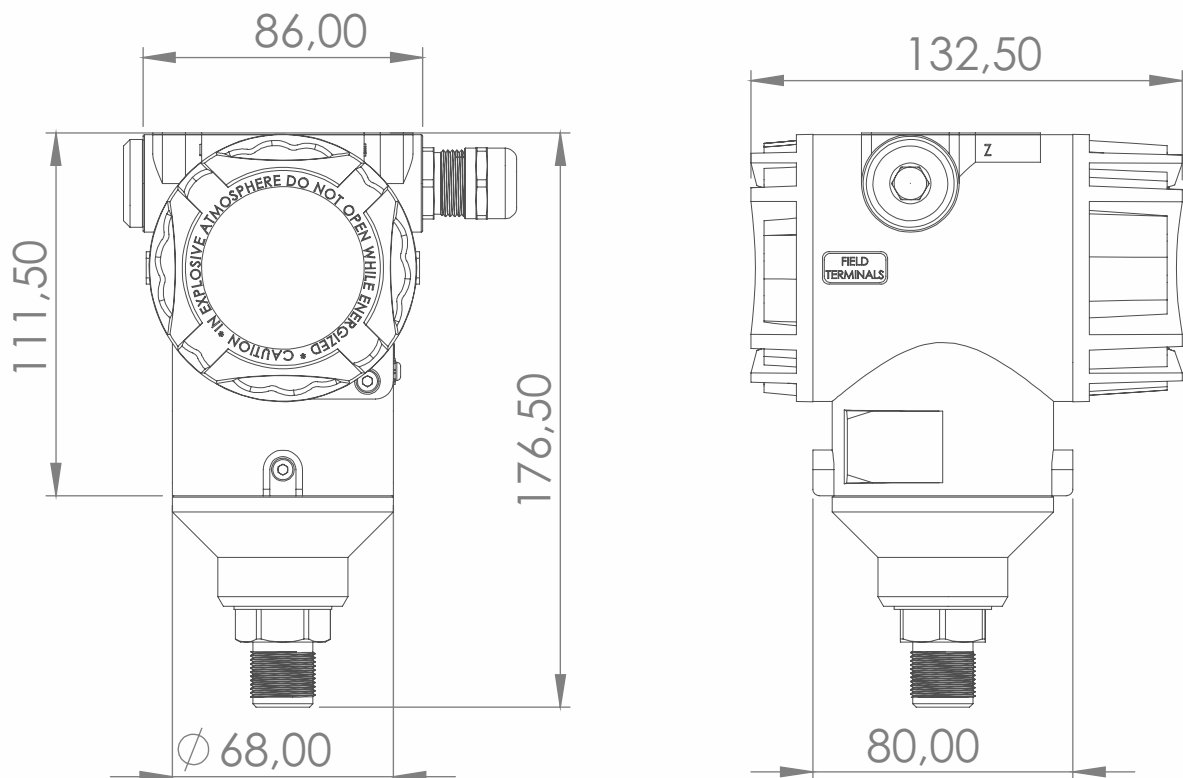
ELECTRICAL DATA

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

MATERIALS

Wetted Part	AISI 316
Diaphragm	AISI 316L
Housing	Aluminum

TECHNICAL DRAWINGS AND DIMENSIONS



MEASURING RANGES

Code	Range	Min. Span	Code	Range	Min.Span
001	100 mBar	10 mBar	007	40 Bar	4 Bar
002	250 mBar	25 mBar	008	100 Bar	10 Bar
003	400 mBar	40 mBar	009	250 Bar	25 Bar
004	1 Bar	100 mBar	010	400 Bar	40 Bar
005	4 Bar	400 mBar	011	700 Bar	70 Bar
006	10 Bar	1 Bar			

MSP3200-LFD

(For flush diaphragm seal and direct mount type transmitter)



MSP3200-LED

(For extended diaphragm seal and direct mount type transmitter)



MSP3200-LFS

(For flush diaphragm seal and capillary type transmitter)



MSP3200-LES

(For extended diaphragm seal and capillary type transmitter)



ORDERING

MSP3200									Smart Pressure Transmitter	
Type	LFD									For flush diaphragm seal and direct mount type transmitter
	LED									For extended diaphragm seal and direct mount type transmitter
	LFS									For flush diaphragm seal and capillary type transmitter
	LES									For extended diaphragm seal and capillary type transmitter
Approval	N								For none-hazardous areas	
	Xi								II 1/2G Ex ia IIC T4 Gb(Ga)	
Output	H								4-20 mA + HART	
	M								RS-485 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 316L	
	2								Alloy C-276	
	X								On request	
Flange Rating	AXX								ANSI flanged (Example; Class 150 = A150)	
	PXX								DIN flanged (Example; PN16 = P16)	
Flange Size	XXX								Please specify flange dimension in order as example ; DN50(2") = 50	
Flange Material	04								AISI 304	
	16								AISI 316	
	HC								Hastelloy C	
Extended Length	N								None	
	XX								Please specify in order as unit is mm (only for extended type transmitter)	
Capillary Length	N								None	
	XX								Please specify in order as unit is m (only for capillary type transmitter)	
Fill Fluid	2								Silicone 200 (-45~205°C)	
	7								Silicone 704 (0~300°C)	
	N								None	