Intelligent Pressure Switch

MSPS500





OVERVIEW

Operation

MSPS500 Intelligent Pressure Switch is an intelligent pressure measurement & control product which integrates pressure measurement, display, output and control. This product is in full-electronic structure. The piezoresistive silicon pressure sensor is adopted in the front end. The output signal is processed by the amplifier with high precision and low temperature drift, and then sent into high precision A/D converter.

Features

- High precision
- 4-20 mA or 0-10 VDC analog output
- Relay output
- OLED shows the current pressure
- High safety
- Reliability
- Easy commissioning
- Flexible use
- 270° rotating screen

Application

- Hydropower
- Petrochemical industry
- City water supply
- Hydraulic
- Scientific research
- Accurate measurement and control of pressure of fluids

OPERATING DATA

Temperature Limit	-25... 80˚C
Storage Temp. Limit	-40... 100˚C
Accuracy	±0,2% FS
	±0.5% FS
Pressure	10kPa ... 60MPa
Overload Capability	150... 300%FS
Repeatability	±0.05 % of Full scale
Enclosure	IP67

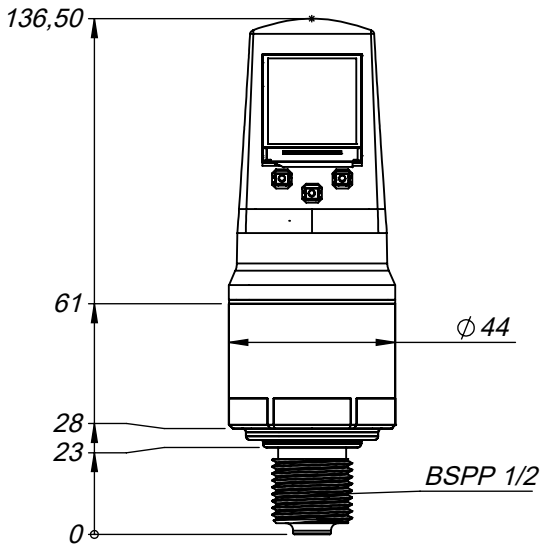
MEASURING RANGES

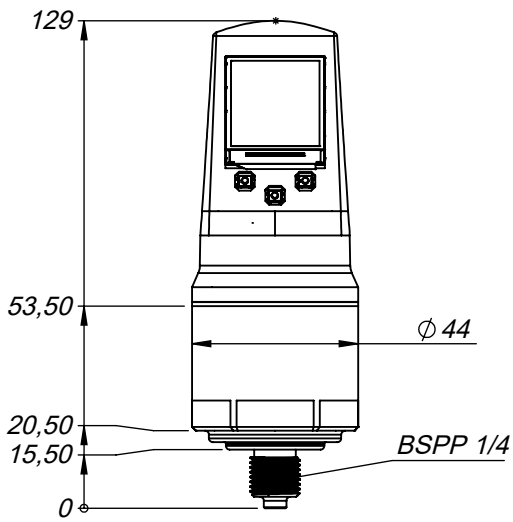
Pressure range code	Pressure reference	Pressure range	Overpressure (%FS)	Burst pressure (%FS)
10k	G	0... 10 kPa	300	600
35k	G	0... 35 kPa	300	600
?Ok	G	0... 70 kPa	300	600
100k	G,A	0... 100 kPa	200	500
250k	G,A	0... 250 kPa	200	500
400k	G,A	0..400 kPa	200	500
600k	G,A	0... 600 kPa	200	500
1.0M	G,A	0... 1.0 MPa	200	500
2.5M	G,S	0... 2.5 MPa	200	500
6M	S	0... 6 MPa	200	400
10M	S	0... 10 MPa	200	400
16M	S	0... 16 MPa	200	400
25M	S	0... 25 MPa	150	300
40M	S	0..40 MPa	150	300
60M	S	0... 60 MPa	150	300

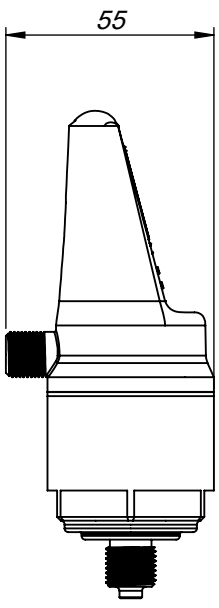
MATERIALS

Housing	AISI304
Pressure **Port**	AISI304
Diaphragm	AISI316L

TECHNICAL DRAWINGS AND DIMENSIONS



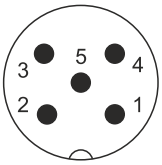




ELECTRICAL DATA

Output	4～20mA, 2xRelay / 0-10 VDC on request
Power Supply	24 VDC
Power Consumption	≤50 mA
Response Time	≤20 ms

ELECTRICAL WIRING



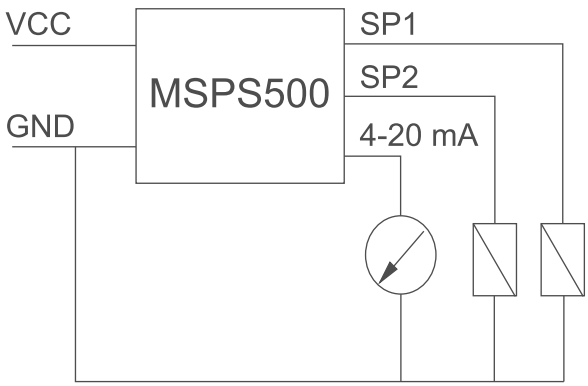
AC Power Supply

1. Brown	●	: 24 VAC (L)
2. White	○	: 24 VAC (N)
3. Blue	●	: mA + / V+ (output)
4. Black	●	: GND
5. Gray	●	: SW1

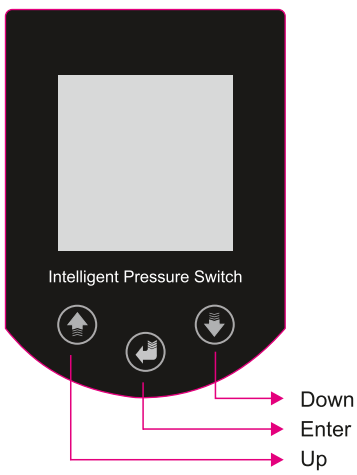
DC Power Supply

1. Brown	●	: 24 VDC+
2. White	○	: 24 VDC - (GND)
3. Blue	●	: mA + / V+ (output)
4. Black	●	: SW1
5. Gray	●	: SW2

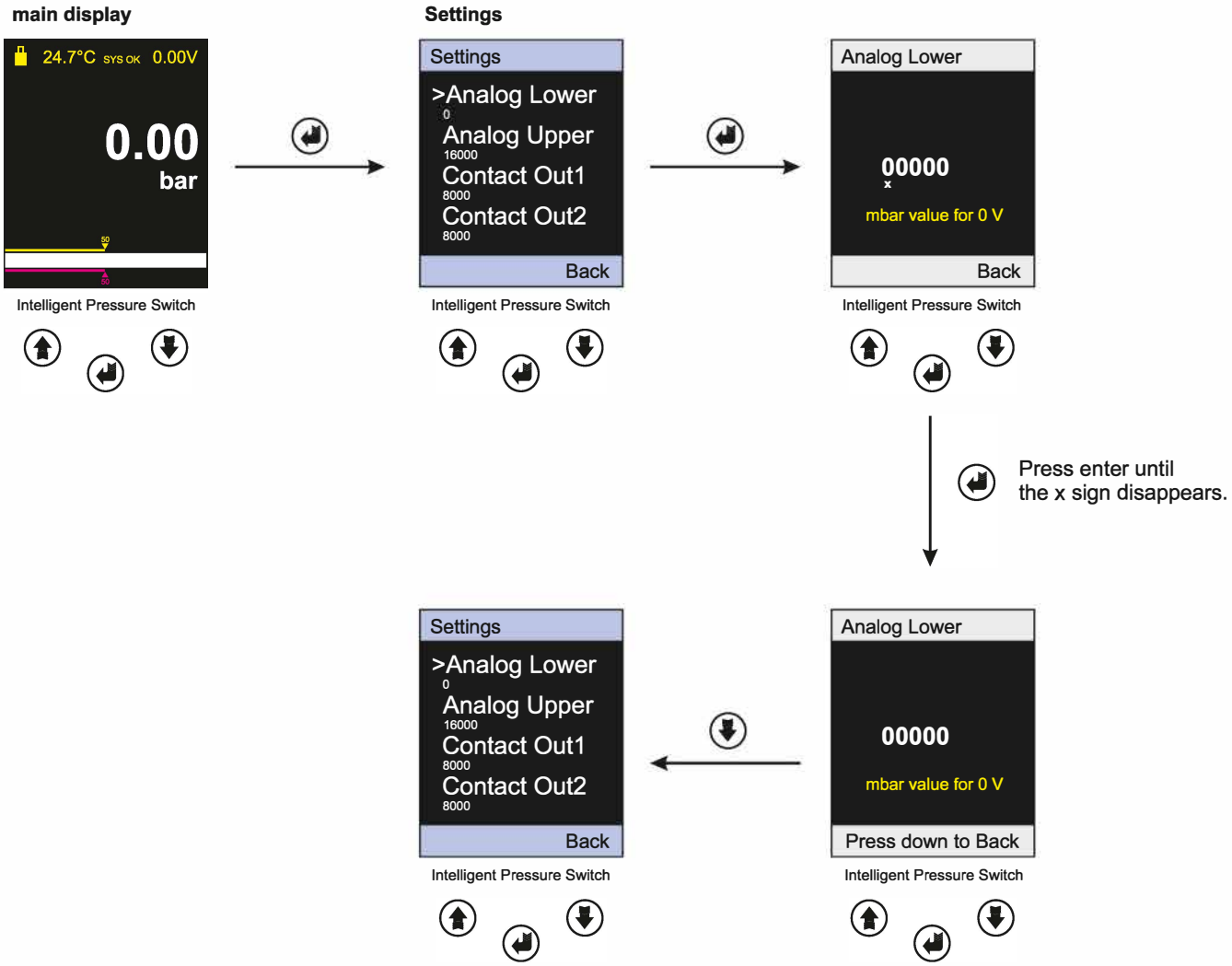
M12, 5 Pin Connector



KEYPAD



DISPLAY



RELAY

If the pressure is below the set value, it gives 24 V relay output. Otherwise, it gives 0 V output.

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