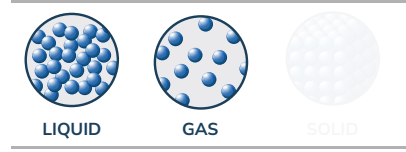
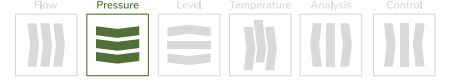


# MSPS500

## Intelligent Pressure Switch



## 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 ND converter.

### Application

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

### Features

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



## OPERATING DATA

### Temperature Limit

-25°C... +80°C

### Storage Temperature Limit

-40°C... +100°C

### Accuracy

±0,2% FS

±0,5% FS

### Pressure

10kPa...60MPa

### Overload Capability

150...300%FS

## 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                  |
| 70k                 | 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 ... 6MPa     | 200                | 400                  |
| 10M                 | S                  | 0 ... 10MPa    | 200                | 400                  |
| 16M                 | S                  | 0 ... 16MPa    | 200                | 400                  |
| 25M                 | S                  | 0 ... 25MPa    | 150                | 300                  |
| 40M                 | S                  | 0 ... 40MPa    | 150                | 300                  |
| 60M                 | S                  | 0 ... 60MPa    | 150                | 300                  |



## MATERIALS

### Housing

AISI304

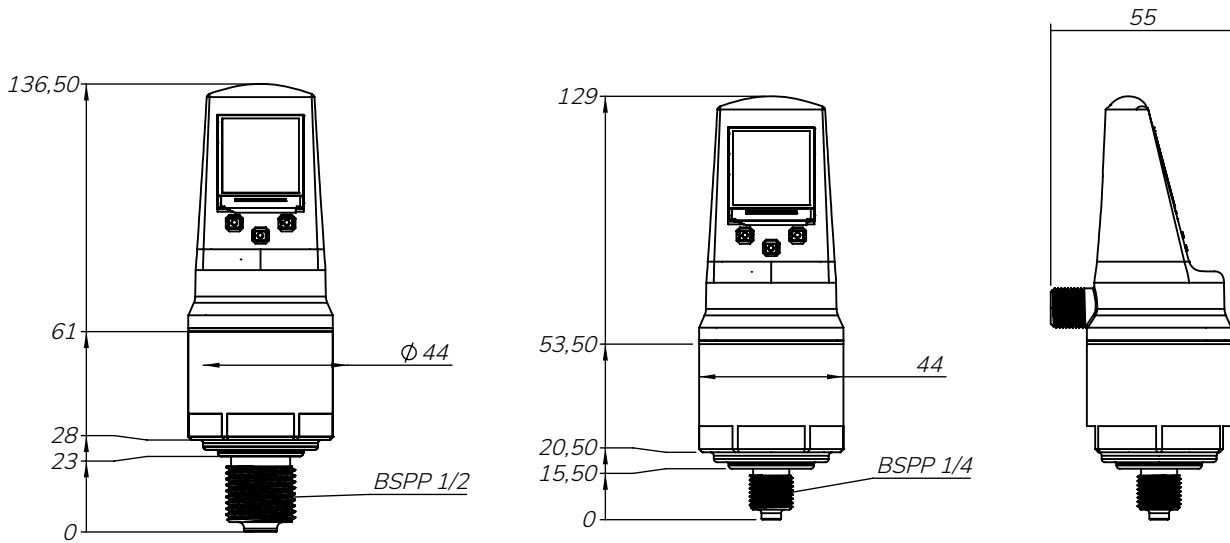
### Pressure Port

AISI304

### Diaphragm

AISI306L

## TECHNICAL DRAWING AND DIMENSIONS



## ELECTRICAL DATA

### Output

4~20mA, 2xRelay / 0-10 VDC on request

### Power Supply

24 VDC

### Power Consumption

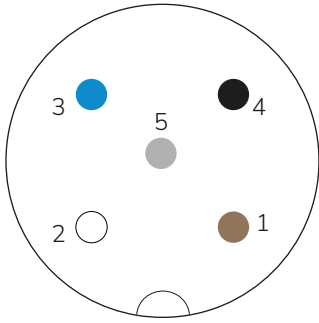
$\leq 50$  mA

### Response Time

$\leq 20$  mA



## ELECTRICAL WIRING

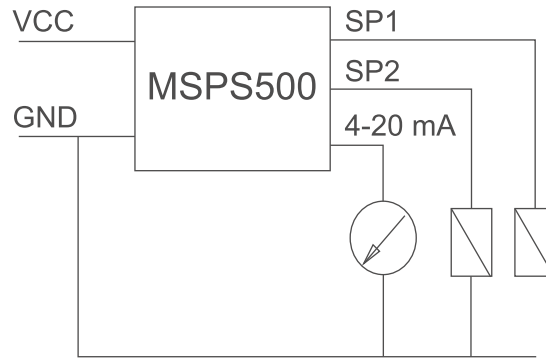


### AC Power Supply

- 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



## KEYPAD

