Electronic Pressure Switch

General information about ADIP-600ES Intelligent Electronic Pressure Switch

- ✓ electronic pressure switch, transmitter and display in one device.
- ✓ pressure switch is designed for pressure monitoring and measurement in liquid and gaseous media.
- ✓ The device is suited for general industrial applications such as in mechanical manufacturing, in machine tool systems, in hydraulic and pneumatic systems, for pressure monitoring and control and for pumps and compressors.
- ✓ It is pressure switch, transmitter and display in one device. In its standard configuration it has optional two switching outputs (PNP or NPN), an analog output signal (0...20mA| 4...20 mA or 0...5V| 0...10 V) as well as with RS485 Link.
- ✓ The pressure switch ADIP-600ES takes the high integrated ARM industrial-grade MCU as the core.
- ✓ And by combining high-precision AD switch, high stabile pressure sensor and carefully adjustment, the device ensures fast-speed and precise pressure measurement and switch movement.
- ✓ The setup using the three big back-lighted buttons and the display on machine make it very easy for on-site parameters setting.
- ✓ There is a large number of measurement ranges available from a smallest measurement range of -0.1...0.1MPa to 60MPa.

Other optional:

- 1In addition, the device offers absolute gage and negative ranges.
- The zero point can be adjusted by bottons.
- The device has a circularly welded stainless steel membrane without internal sealing elements, thus it is well suited for a large variety even of corrosive media.
- there are various optional processing connectors.
- Supporting standard MODBUS, the device makes it possible to remote data collection and parameters setting, helping customers free from buying extra communication adapters.
- The ADIP-600ES is compactly designed,housing with electrical connection against processing connection rotatable330°,display against housing turnable 180°,making it very easy for on-site installation and monitoring.

Application:

- Mechanical manufacturing,
- Machine tool systems,
- Hydraulic and pneumatic systems,
- Pressure monitoring and control
- Pumps and compressors

Features:

- Gas and liquid pressure measurement
- PNP switching, voltage and current outputs
- Switching points settable
- Switching can be set normally open / normally closed
- Supporting Switching delay
- Various analog output ways available
- Displaying pressure peak value and environment temperature
- Analog output span settable
- High light switch indicating
- OLED self-luminous display
- Display reversing 180°
- Housing with electrical connection against process connection rotatable 330°
- Industrial touch button
- Various display pressure units
- Parameters setting up for Password protection
- Optional Chinese and English menu
- Support MODBUS

Technical specification of the device:

- Pressure range:-1.0...0.1MPa to 60MPa
- Accuracy:≤0.5%FS
- Supply power range:12...30VDC
- Temperature error within rated(temperature range):±0.02%FS/℃ (Zero/full span)
- Long-term stability:±0.3%FS/year
- Analog output accuracy:±0.2%FS
- Measurement media:Gas and liquid
- Output configurations:switching+voltage+ communication:2×PNP +
- 0V～5VDC/10VDC + MODBUS
- switching+current+ communication:2×PNP + 0mA/4mA～20Madc + MODBUS
- Switching current:1.0A(Max.)
- Switching type:normally open , normally closed
- Switching respond time:<10ms
- Switching delay :0.00s～1000.0s
- Switching motion mode:delay or windows mode
- Analog signal output and maximum ohmic load RL:Current
- output:0/4…20mA、20…4/0mA RL≤0.5kΩ-Voltage output:0…5/10V、5/10…0V RL>10kΩ
- Screen display:OLED
- Menu language:English, Chinese
- Switching instruction:2X red LED
- Displaying pressure units:psi、bar、mbar、Pa、kPa、MPa
- Buttons:3X blue back-lighted touch buttonsDisplaying supplementary variables:environment temperature, analog output value,maximum pressure peak value,minimum pressure peak value
- Supplementary variables displaying modeL:fixed displaying or INFO button
- Switching display
- Working temperature:-30℃～80℃
- Media temperature:-30℃～80℃
- Storage temperature:-40℃～80℃
- Electromagnetism compatible:GB/T 17626.2/3/4-2006
- Shock resistance:≤10g/10Hz...500Hz(IEC 60068-2-6-2007)
- Vibration resistance:≤50g/11ms(IEC 60068-2-27-2008)
- IP rating:IP65