

# Intelligent Electronic Level Switch

## General information about ADIL-623ES Intelligent Electronic Level Switch

ADIL-623ES electronic level switch, transmitter and display in one device. Intelligent Level Switch is designed for level monitoring and measurement of liquid and oil media. It is applied to general industry such as tank, case, liquid cell and deep well. It is level 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 level switch ADIL-623ES takes the high integrated ARM industrial-grade MCU as the core. The ADIL-623ES ensures fast-speed and precise level measurement and switch movement by carefully adjustment and combining high-precision AD switch and high stable pressure sensor. The setup using the three big back-lighted buttons and the display on machine make it very easy for on-site parameters setting.



## Feature:

There is a large number of measurement ranges available from a smallest measurement range of -0...1m H<sub>2</sub>O to 100mH<sub>2</sub>O. The zero point can be adjusted by buttons. The connection elements consist of stainless steel and airway cable with a blowhole in the core. Hence, it has high sealing performance and is well suited for a large variety even of corrosive media. Supporting standard MODBUS, the ADIL-623ES makes it possible to remote data collection and parameters setting, free customers from buying extra communication adapters. For electrical connection the SLS has an M12x1 connector.

The ADIL-623ES is compactly designed with housing with electrical connection against process connection rotatable 330°, display against housing turnable 180°, making it very easy for on-site installation and monitoring.

## Application:

General industry such as tank, case, liquid cell and deep well

## Product features:

- Liquid and oil media level 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 turnable 180°
- Housing with electrical connection against process connection rotatable 330°
- Industrial touch button
- Various display pressure units
- Media density settable
- Parameters setting up for Password protection
- Optional Chinese and English menu
- Support MODBUS communication



## Technical specification of the device:

- Measuring range:0...1mH<sub>2</sub>O to 100mH<sub>2</sub>
- Accuracy:≤0.5%FS
- Supply Power:12...30V DC
- Temp. Error:±0.02%FS/°C
- Long-term Stability:±0.3%FS/Year
- Analog output accuracy:±0.2%FS
- Measuring Media:Water, mineral-based hydraulic fluid and Synthetic oil
- Wetted material:Stainless steel, Nitrile Butadiene Rubber and PTFE
- 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 (settable)
- 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:Chinese、 English
- Switching instruction:2X Red LED
- Displaying pressure units:kPa, mm, cm, m
- Buttons:3X blue back-lighted touch buttons
- Displaying supplementary variables:environment temp., analog output value,
- max. Peak value,mini. peak value
- Supplementary variables displaying mode:fixed displaying or INFO button
- switching Display
- Working temperature:-30°C~80°C
- Media temperature:0°C~60°C
- Storage temperature:-40°C~80°C
- 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)
- Protection Rating:IP65 / IP68

