



- 24-bit high accuracy ADC sampling, lightning protection (4KV)
- Backlight big screen, 350° rotation angle
- 5 digit, 7 section high contrast LCD display:-19999 to 99999
- Suitable for 4-20 mA transmitters
- 2 alarm / switch outputs that can be adjusted according to max and min set values
- 4-20mA output
- Accuracy: 0.1% F.S. +/- 1 digit
- More than 30 measurement units option adjustable from menu
- Plug in/out-DIN 43650 4 pin polarised
- Error message for high / low range
- IP55 protection class
- Easy configuration with 3 buttons
- 4-20 mA 2-wire loop power
- Reverse polarity and lightning protection (4KV)
- Voltage drop max. 8 V



Application

The EPD11 digital display is used to convert and display the 4-20mA signal taken from the transmitters to the desired measurement unit. The product has high accuracy, good stability, easy operate features. Designed to plug in / plug out of DIN43650 connected 2 wire transmitters. The product has high accuracy, stability and easy operation. It is a convenient way to add a display, and an alarm set point, to pressure or other transmitters. It has 5 digit clear LCD display and the device is programmed with 3 keys for scaling, decimal point and switch point. The display can be rotated in 90 degree steps and settings are maintained during power off conditions.

TECHNICAL SPECIFICATIONS

General Specifications

| | |
|-----------------------|---|
| Applications | 4-20 mA current value or percentage site display Up to 2 independent switch output |
| Input signal | 4-20 mA (2-wire) |
| Power supply | 4-20 mA 2-wire loop power supply, max pressure drop 8VDC |
| Output signal | 1 way switch + 4...20mA output / 2 way switch + 4...20mA output |
| Site operation | 3 buttons, all parameters can be modified at site |

Display Specifications

| | |
|---------------------|---|
| Display | Double row 5bit/8bit, 7 section/16 section with backlight LCD display -19999 ~ 99999 |
| Accuracy | 0.1%F.S ±1 bit |
| ADC sampling | 24 bits |

Switch/Alarm Output Specifications

| | |
|---------------------------|---|
| Switch quantity | 2 way PNP for option |
| Switch settings | 0-100 % for option |
| Switch state | Normally open, normally closed for option |
| Switch function | High setting, low setting, window function, hysteresis function |
| Accuracy | 0.1%F.S |
| State indicate | Red or Green LED display |
| Max. load | Continuous max load 120 mA |
| Delay time | 0-255 ms for option |
| Hysteresis setting | 0-5 % option |

Error Warning

| | |
|-----------------|---|
| Standard | Low alarm value 3,5mA, high alarm value 23 mA |
|-----------------|---|

Mechanical and Environmental Specifications

| | |
|------------------------------|-----------------------------------|
| Material | ABS+PC |
| Rotation Angle | 350° |
| Color | Black |
| Anti-Vibration | 20g, 20-5000Hz |
| Anti-Shock | 100g, 11 ms |
| Operating Temperature | -20°C...+70°C (5-85% RH humidity) |

Electrical Specifications

| | |
|------------------------------|---|
| Insulating property | 500V/100 MΩ |
| Electrical protection | Short Circuit protection, reverse polarity protection |
| EMC | EN61326 |

Measuring Units

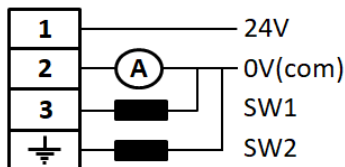
kPa, MPa, Pa, bar, mbar, psi, mH₂O, mmH₂O, Torr, atm, kg, g, mg N, kN, °C, °F, K, %RH, %VOL, PPM, %LEL, pH, m, cm, mm, inch, m/s, Ω, kΩ, mV, V

ELECTRICAL CONNECTIONS

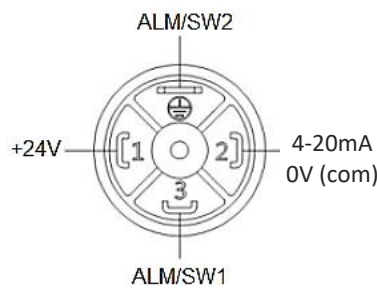
*S35 Connection

2 WAY SWITCH + 4...20mA OUTPUT

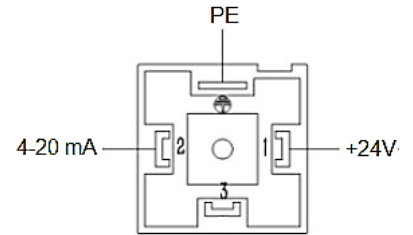
| Pin Configurations | | |
|--------------------------|--------------------------|-----------------------|
| DIN43650A S35 Connection | Power & Switch Connector | Transmitter Connector |
| PIN 1 | +24VDC | +24VDC |
| PIN 2 | 4-20mA / 0V(com) | 4-20 mA |
| PIN 3 | ALM/SW1 | - |
| PIN PE | ALM/SW2 | PE |



Power & Switch Connector



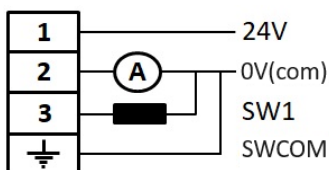
Transmitter Connector



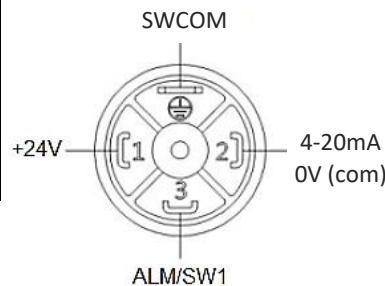
WARNING (!): The product must be connected to the sensor for operation. Otherwise the product will not work.

1 WAY SWITCH + 4...20mA OUTPUT

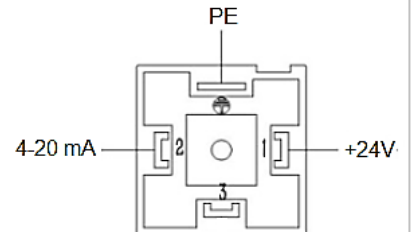
| Pin Configurations | | |
|--------------------------|--------------------------|-----------------------|
| DIN43650A S35 Connection | Power & Switch Connector | Transmitter Connector |
| PIN 1 | +24VDC | +24VDC |
| PIN 2 | 4-20mA / 0V (com) | 4-20 mA |
| PIN 3 | ALM/SW1 | - |
| PIN PE | SWCOM | PE |



Power & Switch Connector



Transmitter Connector



WARNING (!): The product must be connected to the sensor for operation. Otherwise the product will not work.

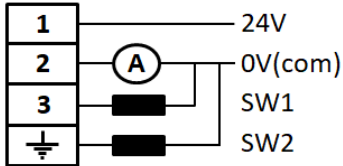
(*) S30 Connection: Connection for Atek-BCT series and Trafag pressure sensors

S35 Connection: Connection for other products

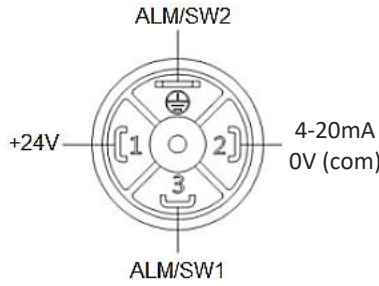
***S30 Connection**

2 WAY SWITCH + 4...20mA OUTPUT

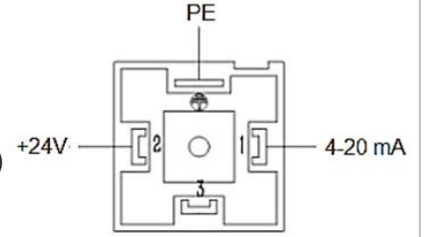
| Pin Configurations | | |
|----------------------------|--------------------------|-----------------------|
| DIN 43650 A S30 Connection | Power & Switch Connector | Transmitter Connector |
| PIN 1 | +24VDC | 4-20 mA |
| PIN 2 | 4-20mA / 0V(com) | +24VDC |
| PIN 3 | ALM/SW1 | - |
| PIN PE | ALM/SW2 | PE |



Power & Switch Connector



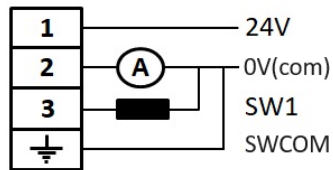
Transmitter Connector



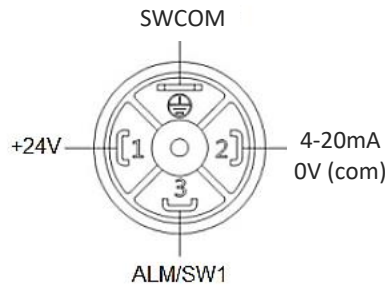
WARNING (!): The product must be connected to the sensor for operation. Otherwise the product will not work.

1 WAY SWITCH + 4...20mA OUTPUT

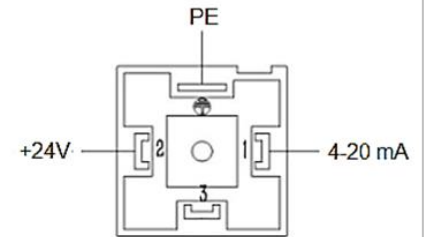
| Pin Configurations | | |
|----------------------------|--------------------------|-----------------------|
| DIN 43650 A S30 Connection | Power & Switch Connector | Transmitter Connector |
| PIN 1 | +24VDC | 4-20 mA |
| PIN 2 | 4-20mA / 0V (com) | +24VDC |
| PIN 3 | ALM/SW1 | - |
| PIN PE | SWCOM | PE |



Power & Switch Connector



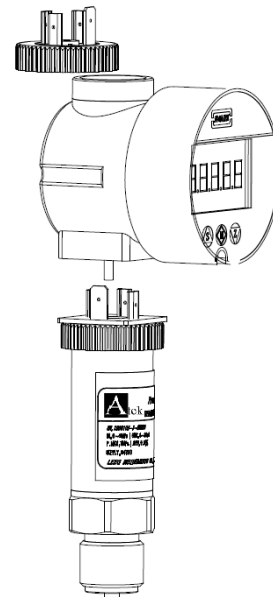
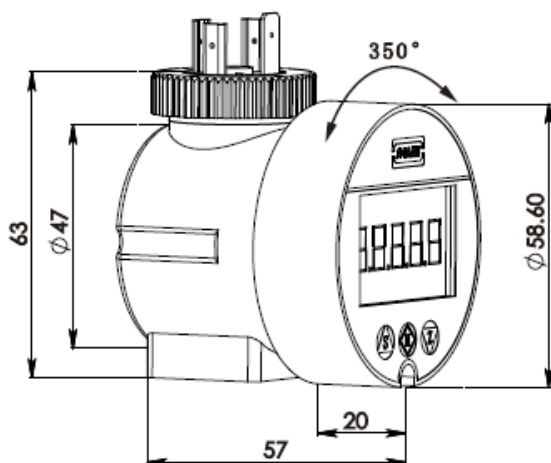
Transmitter Connector



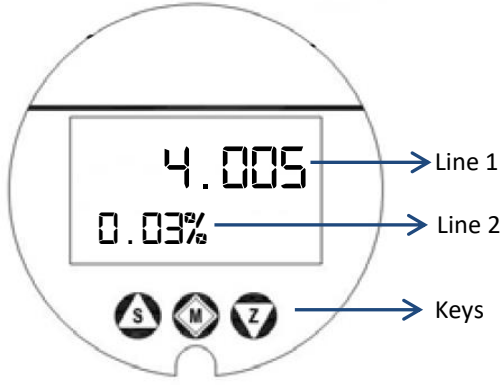
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(*) S30 Connection: Connection for Atek-BCT series and Trafag pressure sensors
S35 Connection: Connection for other products

MECHANICAL DIMENSIONS AND INSTALLATION



DISPLAY AND KEYS



| KEY | Function |
|----------|---|
| M | Parameter selection and setting key:It is used for switching parameters and saving the setting parameters |
| S | Cursor selection key: It is used to select digits when setting parameters. |
| Z | Value modification key: It is used to change the current data when setting the parameter. |

| Display | Function |
|---------------|---|
| Line 1 | Main screen:It indicates the value which is taken from the input, in the selected unit of measurement |
| Line 2 | Vice screen: It shows the percentage of the value taken from the input. |

ORDER CODE

| EPD | Code | Description |
|---|------|---|
| Type | 11 | Direct plug-in installation |
| Electrical connection with transmitter | D | DIN (DIN43650, female) |
| Electrical connection with system | D | DIN (DIN43650, male) |
| Signal Output | A | 1 way switch + 4-20mA output |
| | B | 2 way switch + 4-20mA output |
| Housing Color | R | Red |
| Membrane Color | R | Red |
| Bağlantı Şekli | S30 | Pin 1 : 4-20 mA Pin 2 : +24 VDC Pin 3 : - Pin PE : PE For pressure sensors with suitable connection (Atek-BCT series and Trafag...) |
| | S35 | Pin 1 : +24 VDC Pin 2 : 4-20 mA Pin 3 : - Pin PE : PE For pressure sensors with suitable connection (Atek-BT and BFT series ...) |
| Example: EPD11-DDBRR-S30 | | |

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