



### GENERAL FEATURES

- 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 4–20mA transmitters
- 2 alarm / switch outputs that can be adjusted according to max and min set values
- Also 4...20mA analog signal output
- Accuracy: 0.1% F.S. +/- 1 digit
- More than 30 measurement units option adjustable from menu
- Plug in/out-DIN 43650 pin polarised
- Error message for high / low range
- IP55 protection class
- Easy configuration with 3 buttons
- 4–20mA 2-wire loop power
- Reverse polarity and lightning protection (4KV)
- Voltage drop max. 8V
- Display of differential pressure in differential pressure transmitters



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

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

#### Display Specifications

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

#### Switch/Alarm Output Specifications

<b>Output</b>	Independent of 4–20mA 2-wire circuits
<b>Switch quantity</b>	2 way PNP for option
<b>Switch settings</b>	0–100% for option
<b>Switch state</b>	Normally open, normally closed for option
<b>Switch function</b>	High setting, low setting, window function, hysteresis function
<b>Accuracy</b>	0.1% F.S.
<b>Max. load</b>	Continuous max load 120 mA
<b>Delay time</b>	0–255ms for option
<b>Hysteresis setting</b>	0–5% option

## Error Warning

**Standard** Low alarm value 3,5mA, high alarm value 23 mA

## Mechanical and Environmental Specifications

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

## Electrical Specifications

<b>Insulating property</b>	500V/100MΩ
<b>Electrical protection</b>	Short Circuit protection, reverse polarity protection
<b>EMC</b>	EN61326

## Measuring Units

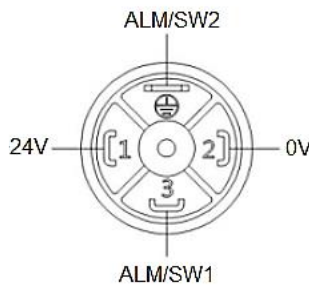
kPa, MPa, Pa, bar, mbar, psi, mH<sub>2</sub>O, mmH<sub>2</sub>O, Torr, atm, kg, g, mgN, kN, °C, °F, K, %RH, %VOL, PPM, %LEL, pH, m, cm, mm, inch, m/s, Ω, kΩ, mV, V

## ELECTRICAL CONNECTIONS

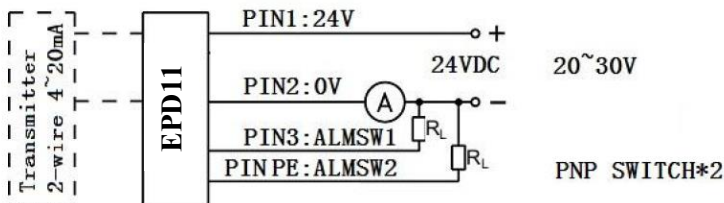
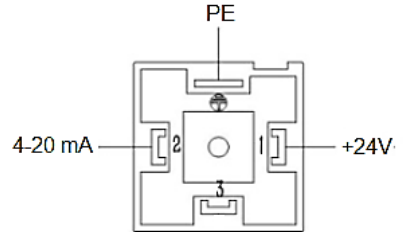
### \*S35 Connection

Pin Configurations		
DIN 43650 A S35 Connection	Power & Switch Connector	Transmitter Connector
PIN 1	+24VDC	+24VDC
PIN 2	0V	4-20 mA
PIN 3	ALM/SW1	-
PIN PE	ALM/SW2	PE

#### Power & Switch Connector



#### Transmitter Connector

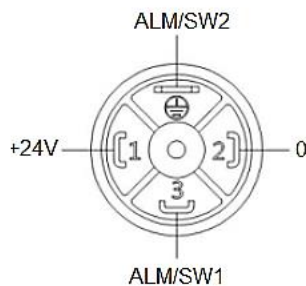


**WARNING (!):** The product must be connected to the sensor for operation. Otherwise the product will not work.

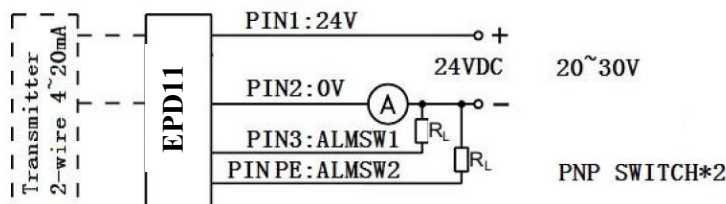
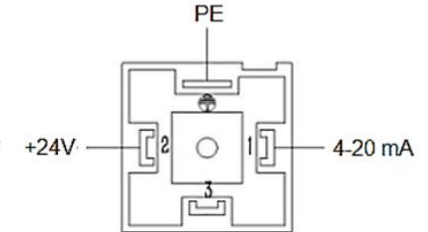
### \*S30 Connection

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

#### Power & Switch Connector



#### Transmitter Connector

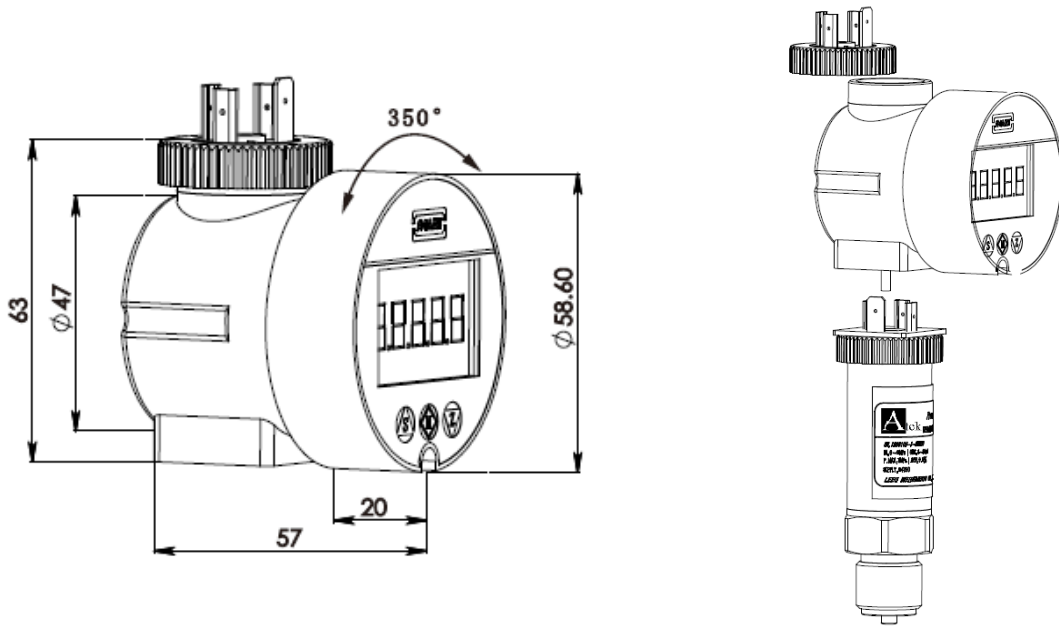


**WARNING (!):** The product must be connected to the sensor for operation. Otherwise the product will not work.

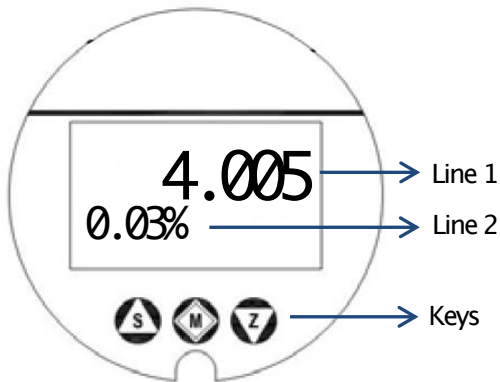
(\*) **S30 Connection:** Connection for Atek-BCT series and Trafag pressure sensors

**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
<b>Type</b>	11	Direct plug-in installation
<b>Electrical connection with transmitter</b>	D	DIN (DIN43650, female)
	H	M12x1 (4-pin) (M12*1, 5 pin, female)
	Y1	Customer demand
<b>Electrical connection with system</b>	D	DIN (DIN43650, male)
	H	M12x1 (4-pin) (M12*1, 5 pin, male)
	Y2	Customer demand
<b>ON-OFF Alarm Function</b>	N	None
	A	1 way on-off alarm output
	B	2 way on-off alarm output
	Y3	Customer demand (min order:100 pcs)
<b>Housing Color</b>	R	Red
	B	Black (option)
	Y4	Customer demand (min order:500 pcs)
<b>Membrane Color</b>	R	Red
	B	Black (option)
	Y5	Customer demand (min order:500 pcs)
<b>Connection Type</b>	S30	<b>Pin 1</b> : 4-20mA <b>Pin 2</b> : +24VDC <b>Pin 3</b> : - <b>Pin PE</b> : PE For pressure sensors with suitable connection (Atek-BCT series and Trafag...)
	S35	<b>Pin 1</b> : +24VDC <b>Pin 2</b> : 4-20mA <b>Pin 3</b> : - <b>Pin PE</b> : PE For pressure sensors with suitable connection (Atek-BT and BFT series ...)
<b>Example: EPD11-DDBRR-S30</b>		