

# AZ30

## Digital Display Unit for panel mounting current loop operation 4 digits

- Without additional power supply
- Individually programmable
- Alarming functions
- Limit switch outputs
- Min/Max memory
- Adaptation of characteristic curve



### Description:

The devices of type AZ30 are designed to display and evaluate standard current loop signals 4..20 mA as used in standard industry applications. They are directly looped into the current loop of a sensor, therefore no additional power supply will be necessary. Due to nearly powerless switched PhotoMOSFETs even in this case two alarming outputs can be realised. Adjusting the display to blinking indicates that the signal current has fallen below or exceeded a programmed limit. This is visible even over long distances. Non linear sensors can be linearised by adapting the characteristic curve by up to 10 points. In addition, a Min/Max memory is available. The devices can be shipped in 3 different structural shapes, so that nearly all requirements can be met.

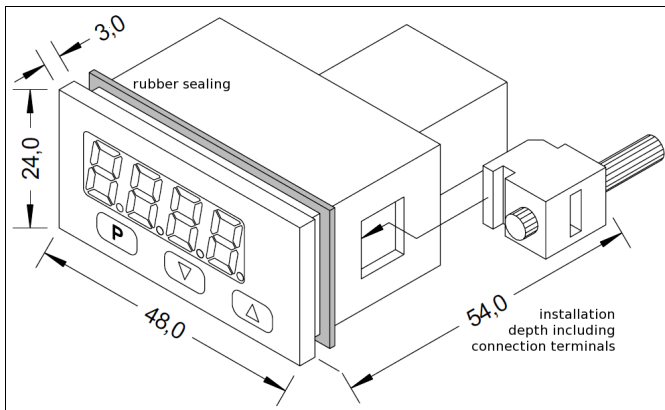
### Applications:

The devices can be applied wherever measured values are transmitted by 4..20 mA current loop technology. Because of the fact, that no additional power supply is needed, setup is quite simple. It can be achieved without additional connections and installations at any point of the transmission path.

## Models:

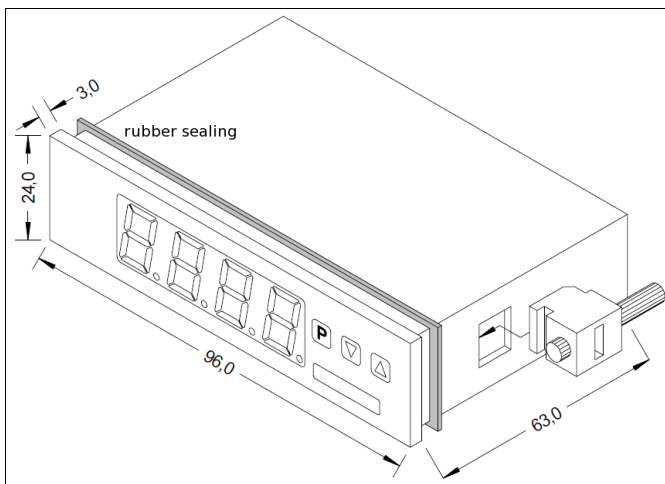
### AZ30.1:

48 x 24 mm, for panel cut-out 45,0 x 22,2 mm:



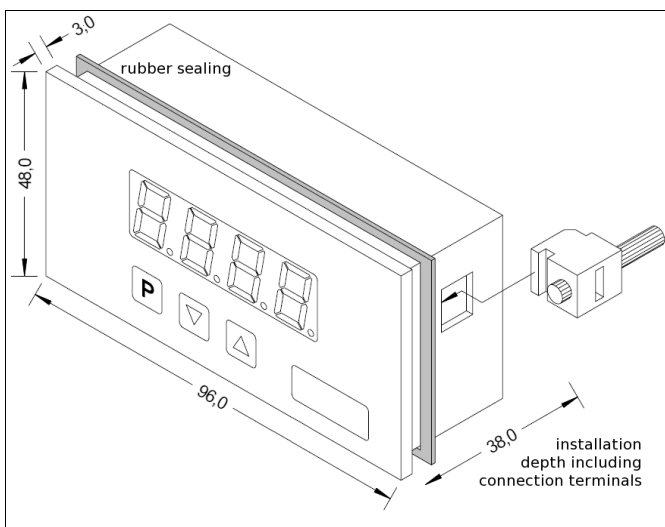
### AZ30.2

96 x 24 mm, for panel cut-out 92,0 x 22,2 mm:



### AZ30.3

96 x 48 mm, for panel cut-out 92,0 x 45,0 mm:



## Modelcode:

Order number: **AZ30. 1. 0.**

**Digital Display Unit for panel mounting**  
current loop operation 4 digits

### Model:

1 = dimension 48 x 24 mm  
2 = dimension 96 x 24 mm  
3 = dimension 96 x 48 mm

### Switching output (not with model 1):

0 = without  
R2 = with 2 PhotoMOSFET outputs

## Technical Data:

**Input:** rated current 4..20 mA  
min. 3,5 ... max. 21 mA  
potential drop: approx. 5 V without switches  
approx. 8 V with switches

**Switching output:** Potential free PhotoMOSFETs,  
contact rating: max. 30 VAC/DC; max. 400 mA,  
proof voltage: max. 400 V permanent  
max. 1800 V 1 minute.

**Display:** 4 digit LED Display,  
model 1: digit height 10 mm  
models 2 and 3: 14 mm height

range: -1999 ... 9999  
integration time: 0,1 ... 10 seconds

**Housing:** polycarbonate black  
seal EPDM black

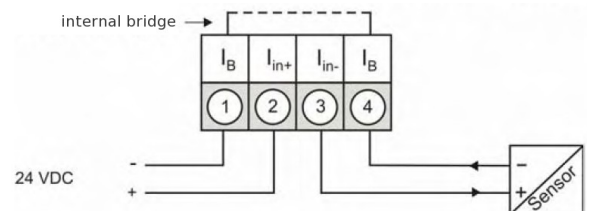
**Protection:** front IP65 standard  
back IP00

**Temperature:**  
operating 0 ... +60 °C  
storage: -20 ... +80 °C

**Memory:** EEPROM, preservation > 100 years

## Electrical connection:

### AZ30.1



### AZ30.2 and AZ30.3

