

# AZ50

## Digital LCD Display and Control Unit

- for pulse / frequency signals, current and voltage signals
- IP65 field housing
- alarm function
- limit switches
- totalizer function
- frequency-analogue transducer



### Description:

The display units of the AZ50 series are designed for the indication and evaluation of standard signals common in industry. Versions for digital pulse, frequency, current and voltage signals are available. The display is freely scalable and different display units can be configured. All versions are manufactured with two limit switches. In addition, an analog output and a data logger on SD card are also available.

As a result, the devices are suitable for almost all applications in industry and mechanical engineering. Furthermore, an integrated counter provides all the functions for the construction of simple dosing devices. The colored backlight of the LCD display provides a clearly visualization of the respective operating state, in particular when exceeding the limit values, even over further distances.

### Typical applications:

Robust handling and intuitive operation open up a wide field of application for the AZ50 in the industrial environment and in laboratory applications. The display unit in the IP65 field housing can be used for wall mounting in conjunction with almost all common sensors for a wide variety of physical parameters.

As a built-on version, the display module is also available as an on-site indication for the rotating vane flowmeters of the series

DR52, DR54, DR56 and DR58

## Models:

### AZ50 – all versions

- 1,7" TFT display LED with background light
- 4 key operation
- 3,5 mm screw-spring back connector
- teach in modus
- K-factor programming
- indicated units free adjustable
- filter functions
- totalizing counter (as well as preselection counter)
- limit values adjustable by menu
- 2 limit switching outputs (solid state relays)
- 2 NPN open collector transistor outputs

### AZ50.F – standard version

- input for digital pulse/frequency signals

### AZ50.A – analogue version

- input for digital pulse/frequency signals
- digital/analogue converter
- analogue output

### AZ50.P – pro version

- input for digital pulse / frequency signals
- input for analogue signals 0...10 V or 4...20 mA
- digital / analogue converter
- analogue output
- data logger on SD card
- arithmetic functions via 2<sup>nd</sup> frequency input

## LCD multifunction display

The display is divided into three areas for a clear overview of the instantaneous value, total sum counter, limit values and operating state:



The background color changes from green to red optically very well recognizable depending on the operating state (color change freely programmable)

## Mechanical connection

The display can be mounted on the rotating vane flowmeters of the series DR52, DR54, DR56 and DR58 as on-site display. A wall mounting model is also available as universal display for any frequency or analogue signals:



## Order Code:

Order number:

AZ50.F.1.W.0

### Digital LCD Display and Control Unit

#### Models:

- F = standard version for pulse/frequency signals with 2 alarm outputs
- A = analogue version with inputs for: digital pulse/-frequency signals, with 2 alarm outputs, frequency/analogue converter and analogue output
- P = pro version with inputs for digital pulse / frequency signals, additional analogue input with 2 alarm outputs frequency / analogue converter and analogue output

#### Power supply:

1 = 24 VDC

#### Mechanical connection:

- 0 = without
- A = build-on version for rotating vane flowmeter
- W = for wall mounting

#### Options:

- 0 = without
- R = relay output 1000 mA
- 9 = please specify in plain text

## Technical Data:

### Display:

TFT graphic display with background light, color adjustable for indication of the operating status depending on alarm status  
1,7" 160 x 128 px

### Housing:

PVC/PE black  
sealing NBR

### Dimensions:

diameter 78 mm  
height 75 mm

### Protection class:

IP65

### Operating temperature:

0 ... +60 °C

### Power supply:

24 VDC (12...36 VDC)  
100 mA max

### Digital inputs:

input resistance: ca 8 kΩ  
switching threshold Low-High: 2,6 V  
High-Low: 2,4 V  
must be actively switched to 0 V e.g. with NPN o/c

### Analogue input:

input resistance current: 100 Ω  
input resistance voltage: 1 MΩ

### Relay output:

solid state relays, galvanically isolated, n/o max. 30 VDC, 200 mA (1000 mA optionally)

### Transistor output:

NPN open collector,  
max 30 VDC, 100 mA

### Analogue output:

4...20 mA (0...10 V on request)