

AZ40

Digital Display- and Control Unit in IP65-Field Housing

- For all standard signals and pulse transmitters
- Individually programmable
- Alarming function
- Limit switch outputs
- Min/Max memory
- Totalizer function
- Frequency-Analogue converter
- Tank level indicator with adaptation of characteristic curve



Description:

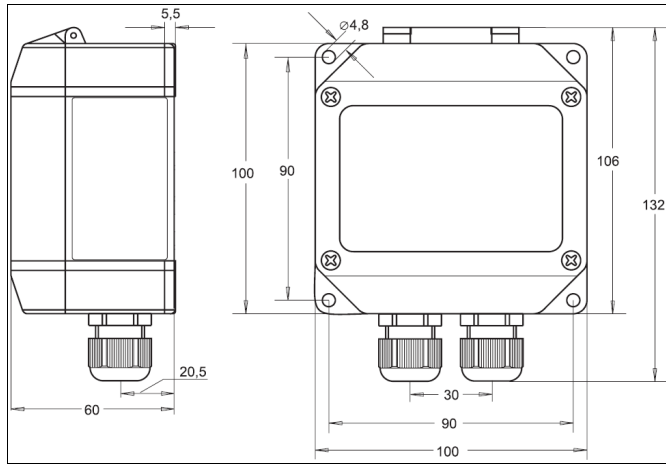
The devices of type AZ40 are designed for field use where a protected control panel is not available and a protection index of IP 65 is required. Devices for standard current and voltage signals are available as well as for frequency and pulse signals. These can also be summed, therefore the devices can be used for dosing purposes. As an option they can be equipped with two relays where the switching point can be arbitrarily programmed. Due to the integrated sensor power supply transmitters can be used easily together with the AZ40 without additional connections and installations.

The tank level indicator model is shipped with six preprogrammed most common tank shapes, after adjusting the dimensions the capacity or residual amount is directly displayed. Due to the possibility of connecting a second pressure sensor, the AZ40 is also suitable for pressure operated vessels.

Applications:

The devices can be applied wherever environmental conditions do not permit the use of panel mounting devices. The devices have been proven effective in filling systems and to display flows in open-air plants.

Dimensions:



Input signals and functions:

F: 2 frequency – pulse inputs	Ri = 6,3 k Ω , Namur: Ri \approx 1 k Ω fmax = 15 kHz; timebase adjustable: s ⁻¹ , min ⁻¹ , h ⁻¹
DF: 2 frequency – pulse inputs, dosing	Ri = 6,3 k Ω , Namur: Ri \approx 1 k Ω fmax = 15 kHz adding or subtracting
S: standard signals U/I	0..10 V: Ri = 100 k Ω ; 0(4)..20 mA: Ri = 10 Ω
DU: voltage signal dosing	0..10 V: Ri = 100 k Ω ; external reset input
DUU: 2 voltage signals dosing	2 inputs: 0..10 V: Ri = 100 k Ω ; adding or subtracting
DI: current signal dosing	0(4)..20 mA: Ri = 10 Ω ; external reset input
DII: 2 current signals dosing	2 inputs: 0(4)..20 mA: Ri = 10 Ω ; adding or subtracting
TU: tank display voltage signal	0(2)..10 V: Ri = 100 k Ω ; digital input level correction
TUU: tank display 2 voltage signals	2 inputs 0(2)..10 V: Ri = 100 k Ω ; for pressure operated vessels
TI: tank display current signal	0(4)..20 mA: Ri = 10 Ω ; digital input level correction
TII: tank display 2 current signals	2 inputs 0(4)..20 mA: Ri = 10 Ω ; for pressure operated vessels

In the case of tank displays six most common shapes are preprogrammed. For others the characteristic curve can be adapted with up to 32 points of adjustment.

Model code:

Order number: **AZ40. S. 1. 0. 0**

Digital Display- and Control Unit in IP65-Field Housing

Input signal and function:

F = frequency – pulse, 2 inputs
DF = frequency – pulse, dosing, 2 inputs
S = 0..10 V; 0(4)..20 mA
DU = 0..10 V, dosing
DUU = 0..10 V, dosing, 2 inputs
DI = 0(4)..20 mA, dosing
DII = 0(4)..20 mA, dosing, 2 inputs
TU = 0..10 V, tank display
TUU = 0..10 V, tank display, 2 inputs
TI = 0(4)..20 mA, tank display
TII = 0(4)..20 mA, tank display, 2 inputs

Power supply:

1 = 230 VAC
2 = 24 VDC
3 = 24 VAC
4 = 115 VAC

Switching outputs:

0 = without
R2 = with 2 relay outputs

Analogue output:

0 = without
A = with 0(2)..10 V; 0(4)..20 mA Analogue output
(not for function DF, dosing with frequency input)

In the case of the dosing functions (DF, DU, DUU, DI, DII) the momentary flow value is not available, only the summed value is displayed and processed.

Technical Data:

Display: 6 digit LED display, red
14 mm height

range: -199999 ... 999999
for input signal S 4 digit -9999 ... 9999

Housing: polyamide glass fibre reinforced,
plastic film keyboard polyester
screwed cable gland M16x1,5

Protection: IP65

Analogue output: 0(4)..20 mA and 0(2)..10 V
automatic switching:
 \leq 500 Ω : current,
 $>$ 500 Ω voltage signal

Switching output: SPDT 250 VAC, 250 VA, 2 A;
300 VDC, 50 W, 2 A max.

Sensor supply: integrated 24 VDC, max. 50 mA,
max. 25 mA with relay output.
devices with frequency inputs also
8 VDC for Namur initiators.