

AZ40

Digital Display and Control Unit in IP65 Field Housing

- for all standard signals and pulse generators
- individually programmable
- alarm functions
- limit value outputs
- peak value memory
- totaliser function
- frequency analogue converter
- fuel gauge with characteristic curve adjustment



Description:

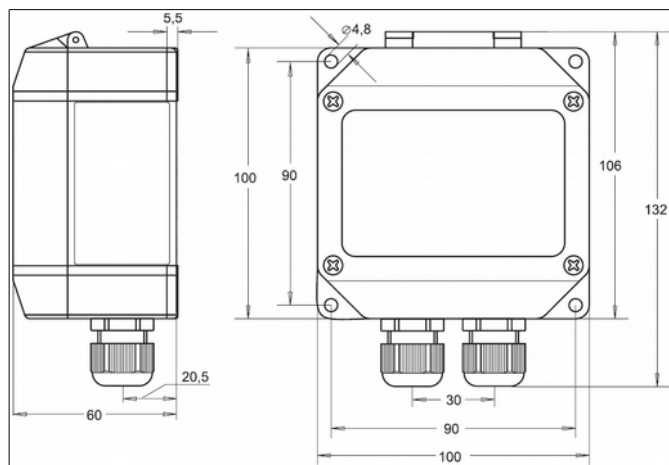
The devices of the AZ40 series are designed for field use where no protected control cabinet is available and protection class IP65 is required. Devices are available for standard current and voltage input signals as well as for pulse and frequency signals. These can also be summed up so that the units can be used for dosing functions. Two relay outputs are optionally available, the switching points of which can be programmed as required. Due to the integrated sensor supply, sensors and transmitters can be operated directly with the AZ40 devices without additional installation effort.

In the tank display version, the six most common tank types are already stored in the electronics and after entering the dimensions of the tank, the display is directly available as filling quantity or residual quantity. The AZ40 can also be used for pressurised tanks due to the possibility of evaluating the signal from a second pressure sensor.

Typical applications:

The devices can be used wherever environmental conditions do not permit the use of panel-mounted devices. They have proven themselves for filling systems and for outdoor flow indication.

Dimensions:



Input signals and functions:

F: 2 frequency – pulse inputs	Ri = 6,3 kW, Namur: Ri ≈ 1 kW fmax = 15 kHz; time base adjustable: s ⁻¹ , min ⁻¹ , h ⁻¹
DF: 2 frequency – pulse inputs, dosing unit	Ri = 6,3 kW, Namur: Ri ≈ 1 kW fmax = 15 kHz adding or subtracting
S: Standard signals U/I	0..10 V: Ri = 100 kW; 0(4)..20 mA: Ri = 10 W
DU: Voltage signal Dosing function	0..10 V: Ri = 100 kW; external reset input
DUU: 2 voltage signals Dosing function	2 inputs: 0..10 V: Ri = 100 kW; adding or subtracting
DI: Current signals Dosing function	0(4)..20 mA: Ri = 10 W; external reset input
DII: 2 Current signals Dosing function	2 inputs: 0(4)..20 mA: Ri = 10 W; adding or subtracting
TU: Fuel gauge Voltage signal	0(2)..10 V: Ri = 100 kW; digital input level correction
TUU: Fuel gauge 2 voltage signals	2 inputs 0(2)..10 V: Ri = 100 kW; for pressurized tanks
TI: Fuel gauge Current signal	0(4)..20 mA: Ri = 10 W; digital input level correction
TII: Fuel gauge 2 current signals	2 inputs 0(4)..20 mA: Ri = 10 W; for pressurized tanks

All tank indicators are pre-programmed with 6 common tank shapes. Any tank shape can be programmed on site via 32 support points.

Order 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 function, 2 inputs
S = 0..10 V; 0(4)..20 mA
DU = 0..10 V, dosing function
DUU = 0..10 V, dosing function, 2 inputs
DI = 0(4)..20 mA, dosing function
DII = 0(4)..20 mA, dosing function, 2 inputs
TU = 0..10 V, fuel gauge
TUU = 0..10 V, fuel gauge, 2 inputs
TI = 0(4)..20 mA, fuel gauge
TII = 0(4)..20 mA, fuel gauge, 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)

For the devices with dosing function (DF, DU, DUU, DI, DII) the instantaneous value is not available, the summed value is always displayed and evaluated.

Technical Data:

Display:	6-digit LED display, red 14 mm digit height range: -199999 ... 999999 for input signal S: 4 digit -9999 ... 9999
Housing:	polyamide glass fibre reinforced front foil Polyester cable gland M16x1,5
Protection class:	IP65
Analogue output:	0(4)..20 mA bzw. 0(2)..10 V automatic changover depending on load: ≤500 Ω: current-, > 500 Ω voltage signal
Switching outputs:	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 outputs. For devices with frequency input also 8 VDC for Namur initiators..