



- * actual flow measurement, batch processes, difference flow measurement
- * A, B inputs, detection of direction
- * two displays (for sample: accumulation with qm and liter)
- * easy to use
- * multiplier 0,0001..9,9999
- * data protection 10 years
- * two switch value
- * relays outputs

TECHNICAL DATA

input INP A, INP B	Count inputs; max. count frequency 30 Hz or 10 kHz separately selectable for both inputs via programming switches C and D at the right side of the housing
input Gate	Static input; no counting while this Zählung solange Eingang aktiviert ist.
input Reset	Dynamic Input; sets the counter to zero (adding mode) or to preset value 2 (subtracing mode)
input Key	Static keyboard lock input. While this input is activated, it is neither to reset the counter nor to change the preset values
output	2 relay with potentialfree make or break contact or optocoupler with open collector and emitter.
display	6 digit, 2-line 7 segment LCD display with sign, counter value 9mm high characters, preset value 7mm high characters, symbols for displayed preset and closed output contacts
preselect	two
counting inputs	two, 4 types of input programmable
polarity of the inputs	PNP or NPN
input sensitivity	10 kΩ
counting speed	Max. 10 kHz reducible to 30 Hz via DIL switch.
min. pulse lenght	of the control inputs 5ms
input sensitivity	for AC supply voltage Log = 0 0.. 4 V DC Log = 1 12..30 V DC for DC supply voltage Ub Log = 0 0..0,2 x Ub Log = 1 0,6 x Ub.. 30 V DC

pulse shape	variable (Schmitt Trigger characteristic)
output	zwo, relay or optocoupler
transmitter voltage	24 V DC, 100 mA
supply voltage	90..260 V AC, 48 V AC , 24 V AC all ±10% or 11...30 V DC
data retention	min. 10 years or 10 ⁶ memory cycles
noise immunity	EN 55011 class B and EN 50082 - 2 with shielded data inputs
protection class	IP 65 (front)
working temperature	0..50°C
weight	0.18 kg

PROGRAMMING

Programming occurs using just 4 keys on the front of the device. The user guidance in plain text on the display ensures easy and intuitive operation. Here, all settings can be made and the relevant parameters selected from a menu.

The following functions are programmable:

Polarity of inputs: Positive (PNP) or negative (NPN) switching. The selection made applies to all inputs simultaneously.

Operating modes, pulse and timer:

- adding with count starting at zero.
- subtracting with present start of count.
- adding with automatic setting on reaching preset value.
- subtracting with autom. setting on reaching preset value.
- additional loop preset counter.

Input types, pulse and frequency counter:

- E1: 1 counter input. 1 changeover input for the count direction.
- E2: 1 up-counter input. 1 down-counter input.
- E3: 2 inputs as phase discriminator for the connection of sensors with two pulse outputs offset by 90°.
- E4: Inputs as phase discriminator with evaluation of double pulses

Decimal places: The display can show none, one, two or three decimal places.

Factor: The counting values can be weighted with a factor between 0.0001 and 9.9999 for optimum sensor matching.

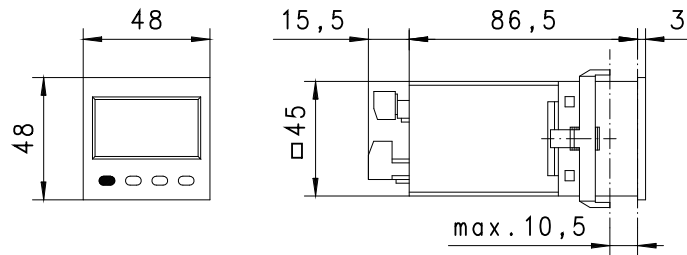
Output signal: The form of the output signal can be selected separately for both outputs as normally open, normally closed, positive or negative momentary signal (duration 0.01 to 99.99 s).

Gating time for frequency counter: Adjustable from 0.01 to 99.99 s.

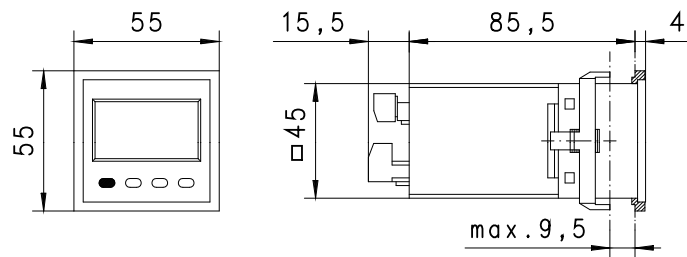
Timer: The counting can occur in h, min or s with a resolution of 0.001, 0.01 and 1.0 or in h:min:s.

DIMENSIONS

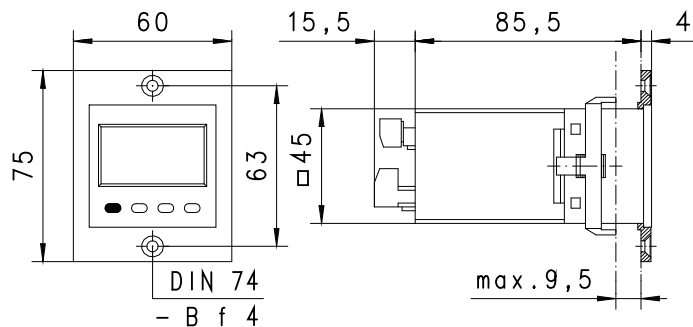
panel cut-out 45 x 45 mm



with front frame
panel cut-out 50 x 50 mm



with front frame screw mount
panel cut-out 50 x 50 mm



NOMENCLATURE

EEZ-	904	R	024	basic type specification
EEZ-				● Counter
	904			● type
		R		● output relay
		K		● output optocoupler
			024	● supply voltage 24 V DC
			260	● supply voltage 90..260 V AC

DELIVERY INCLUDES

- Counter
- Screw terminal plug 7 poles, reference grid 5,08 mm
- Screw terminal plug 7 poles, reference grid 3,81 mm
- Bezel for screw mount, panel cut-out 50 x 50 mm
- Bezel for screw mount, panel cut-out 45 x 45 mm
- Panel mounting clip

All technical changes reserved

●BASIC Standard ○BASIC Programme option □VARIO Special option ⊕ PLUS Accessories ✗not recommendable