

→ Displays

→ Transducers



DISPLAYS AND TRANSDUCERS



## Displays and transducers

Our electronic devices for flow and volume measurement are suitable for all SIKA flow and volume sensors. The display devices show the current flow rate and also calculate the total volume.

The signal conditioners, transducers and frequency dividers convert the output signal of the flow sensor so that it can be processed by the subsequent control system.



### Transducers and frequency dividers

The TU7055 transducers convert the frequency output signal of flow sensors to analogue signals. The instruments are calibrated at the factory to the pulse rate of the desired sensor and tested. The current output delivers a flow proportional output signal of 0(4)...20 mA and the voltage output delivers a flow proportional output signal of 0...10 V.

If the output frequency of a flow sensor is too high for a subsequent evaluation device, then the TU7052 can be used. It converts a sensor's high output frequency into one low enough for the subsequent device to process. The division ratio is freely adjustable within a range of 1:1 to 1:999.

## Displays

The universal displays of the series VA3K01 are 6-digit programmable displays for panel mounting. A transmitter supply is available for the power supply of the connected sensors. The device can display or monitor the flow rate or volume flow. The display VA3K01 is equipped with 2 relay outputs and/or a serial interface.

# Displays

## Panel mounting, series VA3K01

- Programmable electronic flow display for switch panel mounting
- Suitable for all Sika flow sensors equipped with a frequency/pulse output\*
- Display can be programmed for flow or volume
- 14-segment LED for improved text display
- Automatic help texts
- Two relay outputs with potential-free change-over contacts
- Voltage supply for the sensor (type-dependent)
- User lock by means of lock input, e.g. for key switch
- Gate input for activating/deactivating

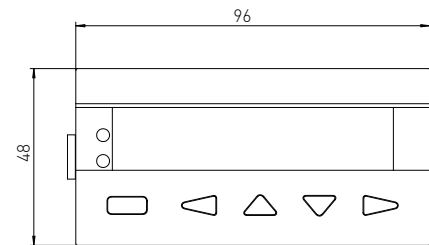
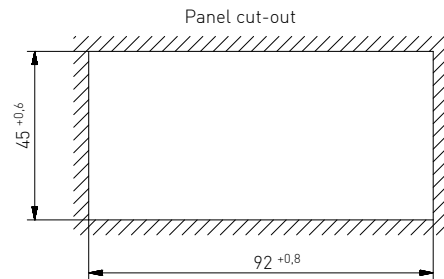
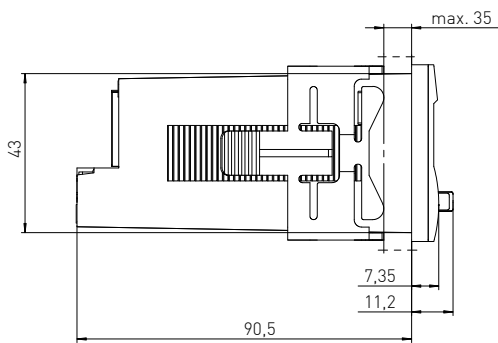


\* Signal amplitude at least 7 V

Technical data	
<b>Display</b>	6-digit, 14-segment LED display, red, 14 mm character height
<b>Programming</b>	Using front keys or by teach-in function
<b>Signal input</b>	Frequency signal from flow or volume sensor
<b>Outputs</b>	2 x relays with change-over contact
→ <b>Switching voltage</b>	Max. 250 VAC/150 VDC
→ <b>Switching current</b>	Max. 3 A AC/DC, min. 30 mA DC
→ <b>Switching capacity</b>	Max. 750 VA/90 W
<b>Operating temperature</b>	-20 °C...65 °C
<b>Storage temperature</b>	-25 °C...75 °C
<b>Housing material</b>	Polycarbonate UL94 V-2
<b>Protection class EN 60529</b>	IP65 (front side)
<b>Protection class EN 60730-1</b>	Class II
<b>Voltage supply (sensor)</b>	(AC version): 24 V DC (±15 %), 80 mA (DC version): Max. 80 mA, connected voltage supply is looped through
<b>Power supply</b>	100...240 V AC (±10 %), max. 11 VA, 50/60 HZ or 10...30 V DC, max. 5.5 W

### Options

- Output interface RS 232, RS 485 for printer or large-screen display
- AC or DC voltage supply



Order code	Example → VA3K01S101SR2	0	D0
<b>Type</b>			
VA3K01	VA3K01S101SR2		
<b>Output-interface</b>			
None		0	
RS 232		2	
RS 485		4	
<b>Power supply</b>			
10...30 VDC			D0
90...260 VAC			A0

# Transducers

## Series TU7055

- Transforms the frequency-output signal of flow sensors into analogue signals
- (0)4...20 mA and 0...10 V are available simultaneously
- Casing for mounting rail installation
- Supply voltage for the connected flow sensor integrated



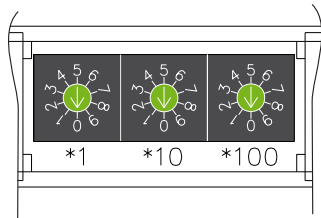
Technical data	
Signal input	Frequency signal from flow sensor
2 output signals	0(4)...20 mA and 0...10 V
Power supply	12...24 VDC ( $\pm 10\%$ ) galvanically insulated
Casing dimensions (w x h x d)	17.5 x 82 x 67 mm,
Casing	Plastic casing for c-rail
Ambient temperature	0...60 °C
Storage temperature	-10...80 °C
<b>Order code</b>	
EU705520000006	

# Frequency dividers

## Series TU7052

If the output frequency of a flow sensor is too high for a present read out unit, TU7052 should be installed. It transforms a high output frequency of a sensor into a lower frequency which can be processed by the present instrument.

The divisor can simply be switched by three rotary switches. The voltage supply for the connected sensor is integrated in the device.



$$\text{output frequency} = \frac{\text{input frequency}}{\text{divisor}}$$



Technical data	
Signal input	Frequency signal from flow sensor
Divisor	Switched by three rotary switches in the range of 1...999
Output	Square-wave signal, pulse duty ratio 1:1 → NPN with 5 kΩ internal pull-up resistance and → PNP with 5 kΩ internal pull-down resistance → Optocoupler
Power supply	12...24 VDC (±10 %)
Casing dimensions (w x h x d)	17.5 x 82 x 67 mm
Casing	Plastic casing for c-rail
Ambient temperature	0...60 °C
Storage temperature	-10...80 °C
<b>Order code</b>	
EU7052F0000006	