## **SPI-94**

- flow meter, batcher, totalizer
- I pulse counting input + 3 control inputs
- **2** or 4 relay outputs (or OC)
- option: active current output
- **s** RS-485 / Modbus RTU



## Typical applications

Filling a tank with the flow rate measurement and alarm signalling.



## **Technical data**

	<b>Power supply</b> : 19V ÷ 50V DC; 16V ÷ 35V AC or 85 ÷ 260V AC/DC, all separated
	<b>Power consumption</b> : for 85 ÷ 260V AC/DC and 16V ÷ 35V AC power supply:
	max. 4,5 VA; 19V ÷ 50V DC power supply: max. 4,5 W
	Display: LED, 6 x 13 mm high, red (green - on request)
	Input: pulse, fully insulated
	COM - common
	zeroing of batcher counter - active edge or level
2	zeroing of total counter - active edge or level
5	counting blockade - active edge or level
2	pulse input - counting input with denouncing filter and pulse width
2	control, max. input frequency 10.0 kHz
5	Displayed values range: 0 + 999999 + decimal point
3	Accuracy of instantaneous flow values: selected in the 0 ÷ 0,00000 range
	Instantaneous flow unit: I or m <sup>3</sup> per second, minute or hour
	Balance counter capacity: over 4 x 10 <sup>9</sup> pulses (max. 16 significant digits)
	Balance accuracy: selected in the ± 1 to ± 0,0001 range
	Total flow and batcher counter precision: selected from range: 0 ÷ 0.000
	Batcher counter range: 65536 m <sup>3</sup>
	Pulse waiting time: settable from 0,1 to 39,9 seconds
	<b>Outputs</b> : 2 or 4; relays 1A/250V AC ( $\cos\varphi$ =1) or the OC 30mA/30VDC/100mW
	Transducer power supply output: 24V DC +5%, -10% / max. 100 mA, stabilized, not
	insulated from communication interface
	Active current output: operating range max. 0 - 24 mA, load resistance max. 700 $\Omega$
	(option available with 2 relays, see ordering)
	Communication interface: RS-485, 8N1 and 8N2, 1200 bit/s ÷ 115200 bit/s, Modbus
	RTU (not galvanically insulated)
	Data memory: non-volatile memory, EEPROM type
	Operating temperature: 0°C ÷ +50°C
	Storage temperature: -10°C ÷ +/0°C
	<b>Protection class</b> : IP 65 (front), available additional frame IP 65 for panel cut-out sealing;
	IP 20 (case and connection clips)
	Case: Doard
、	Case material: NORYL-GFN25E1
)	Panel out dimensions: 90 5 x 43 mm
)	Installation donth: min_102 mm
	Board thickness: may 5 mm
	Dourd unorness. mdA. 5 mm
	V 10 10

**SPI-94** are the flow meters designed to work in tandem with the pulse flow transducers with coefficients ranging from 0,01 to 9999,99 pulses per litre, equipped with electronic (open collector) or contact input. A flow counter allows to measure the actual instantaneous value and to record the total flow of fluids, gases or bulk materials. Wide range of total flow (up to 16 significant digits) enables flow volume control for a long time. Build in a batcher function makes possible application of **SPI-94** in a wide range of industry branches (food production, pharmacy, paint and varnish). The counters have 2 or 4 relay (or OC) outputs, depending on the actual instantaneous, batcher or total value of the flow (only R1 output).

- display of instantaneous and the total flow values,
- batching and counting of doses,
- setting the volume units, the flow time and decimal point,
- settable delay time of control outputs: up to 99 sec. or min. and threshold hysteresis setting,
- ACCESS option easy threshold modification.



## Ordering

SPI-94-14XX-1-X-XX1		
	options:   00 : no options   01 : IP 65 frame   power supply:   3 : 24V AC/DC   4 : 85V - 260V AC/DC	
number of outputs: 2 3 4	type of outputs:   1 : REL (for 2 and 4 outputs)   2 : OC (for 2 and 4 outputs)   3 : 2 x REL + current output   4 : 2 x OC + current output	



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