SPI-94

SIMPACT II

- flow meter
- 1 pulse counting input
- 2 or 4 relay outputs (or OC)
- RS-485 / Modbus RTU
- option: active current output

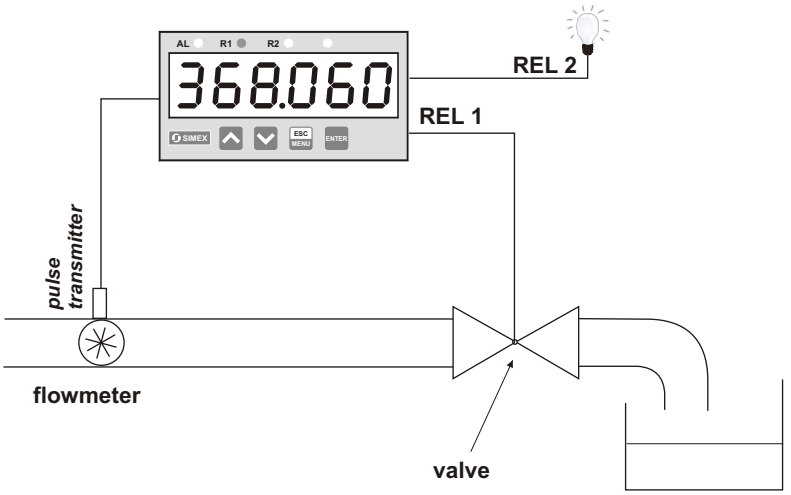
CE

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. A flow counter is to measure the actual instantaneous value and to record the balance of fluids, gases or bulk materials. A flow counter can also control industrial processes. The device can be connected with a flow transducer featuring electronic (open collector) or contact input. Wide balance range (up to 15 significant digits) enables flow volume control for a long time. The counters have 2 or 4 relay or OC outputs, depending on the actual instantaneous value of the flow or balance (only R1 output).

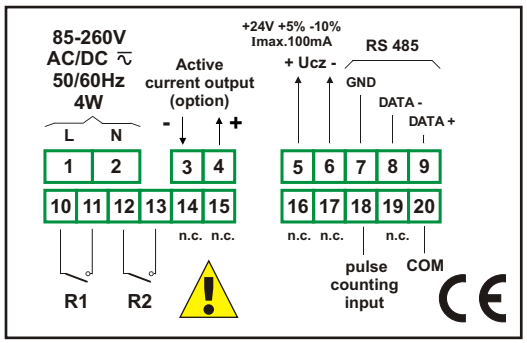
- display of instantaneous value and the balance,
- setting the volume units and the flow time,
- settable delay time of relays: up to 99 seconds or minutes,
- programmable decimal point position,
- threshold hysteresis setting,
- ACCESS option - easy threshold modification.

Typical applications

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



Examplary pin assignment



Ordering

SPI-94-14XX-1-X-XX

options:
01 : IP65

power supply:
3 : 24V - 48V AC
4 : 85V - 260V AC/DC

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

number of outputs:
2
3
4

Technical data

Power supply: 19V ÷ 50V DC; 16V ÷ 35V AC or 85 ÷ 260V AC/DC
Power consumption: 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, red, 6 x 13 mm high
Input: pulse, galvanically isolated with contacts oscillation damping
contact: max. frequency from 15 to 50 Hz (user selected), min. pulse length 5 ms;
electronic: max. frequency 120 Hz, min. pulse length 500 µs
Accuracy of instantaneous flow values: selected in the 0 ÷ 0,0000 range
Instantaneous flow unit: l or m^3 per second, minute or hour
Balance counter capacity: over 4 x 10^9 pulses (max. 15 significant digits)
Balance accuracy: selected in the 0 ÷ 0,000 range
Pulse waiting time: settable from 0,5 do 15 seconds
Measuring range: 0 ÷ 999999 + decimal point
Outputs: 2 or 4; relays 1A/250V AC (cos =1) or the OC 30mA/30VDC/ /100mW
Transducer power supply output: 24V DC +5% -10% / max. 100 mA, stabilized, not insulated from measuring inputs
Active current output: operating range max. 0 - 24 mA (option available with 2 relays, see ordering)
Communication interface: RS 485, 8N1, 2400 bit/s ÷ 115200 bit/s, Modbus RTU (not galvanically isolated)
Data memory: non-volatile memory, EEPROM type
Operating temperature: 0°C ÷ +50°C
Storage temperature: -10°C ÷ +70°C
Protection class: IP 65 (front side when an additional frame is installed); IP 40 (front side); IP 20 (case and connection clips)
Case: board
Case material: NORYL - GFN2S E1
Case dimensions: 96 x 48 x 100 mm
Panel cut-out dimensions: 90,5 x 43 mm
Installation depth: min. 102 mm
Board thickness: max. 5 mm