

SPI-73

- flow meter
- 1 pulse counting input
- 1 relay output (or OC)
- power supply output: 21V DC
- option: RS-485 / Modbus RTU

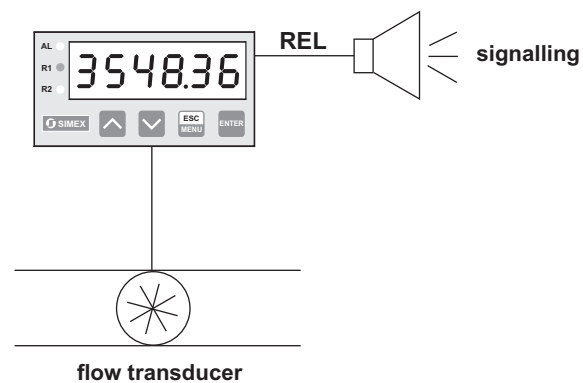


SPI-73 are the flow meters designed to work in tandem with the pulse flow transducers with coefficients ranging from 0,01 to 9999,99 pulses per litre. Wide balance range (up to 15 significant digits) enables flow volume control for a long time. The counters have 1 relay or OC output, which is programming depending on the actual instantaneous value of the flow.

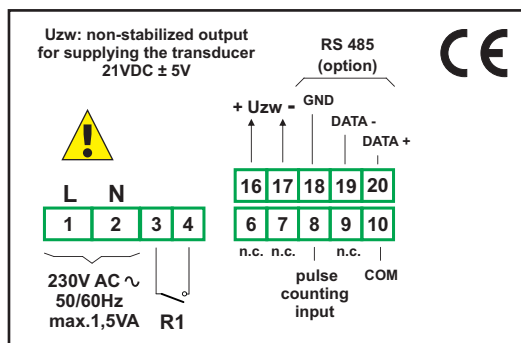
- display of instantaneous value and the balance,
- password protection,
- setting the volume units and the flow time,
- settable delay time of relay: up to 99 seconds or minutes,
- programmable decimal point position,
- threshold hysteresis setting,
- ACCESS option - easy threshold modification,
- available with AC and DC power supply versions.

Typical applications

1. Signalling minimal flow in refrigerating cycle, balance of refrigerating liquid.



Exemplary pin assignment



Technical data

- Power supply:** 230V AC $\pm 10\%$ or 24V DC (non separated)
Power consumption: for 230V AC power supply: max. 1,5 VA; for 24V DC power supply: max. 3,5 W
Display: LED, red, 6 x 9 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 μ s
Accuracy of instantaneous flow values: selected in the $0 \div 0,0000$ range
Instantaneous flow unit: l or m³ per second, minute or hour
Balance counter capacity: over 4×10^9 pulses (max. 15 significant digits)
Balance accuracy: selected in the $0 \div 0,000$ range
Pulse waiting time: settable from 0,5 do 15 seconds
Measuring range: $0 \div 999999 +$ decimal point
Outputs: 1 relay 1A/250V AC ($\cos \phi = 1$) or the OC 30mA/30VDC/100mW
Transducer power supply output: 21V DC $\pm 5V$, non-stabilized, not insulated from measuring inputs; for 230V AC power supply: max. 15 mA; for 24V DC power supply: max. 100 mA
Communication interface (option): RS 485, 8N1, 2400 bit/s \div 19200 bit/s, Modbus RTU (not galvanically isolated)
Data memory: non-volatile memory, EEPROM type
Operating temperature: 0°C \div +50°C
Storage temperature: -10°C \div +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: 72 x 36 x 97 mm
Panel cut-out dimensions: 66,5 x 32,5 mm
Installation depth: min. 102 mm
Board thickness: max. 5 mm

Ordering

SPI-73-141X-X-X-XX1

options:

- 00 : no options
- 01 : IP65

power supply:

- 1 : 24V DC
- 2 : 230V AC

communication interface:

- 0 : without interface
- 1 : RS-485

type of outputs:

- 1 : REL
- 2 : OC