

# SPI-73

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

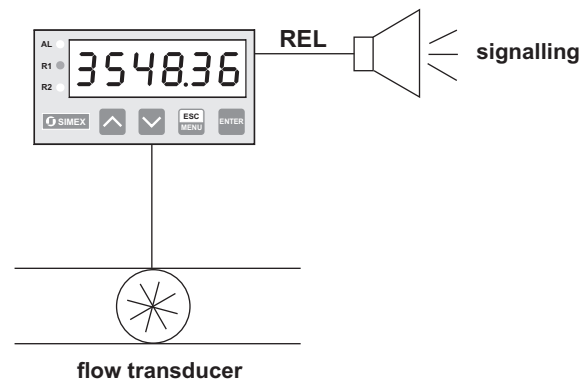


**SPI-73** are the flow meters designed to work in tandem with the pulse flow transducers with coefficients ranging from 0,01 to 9999,99 pulses per litre. Wide balance range (up to 15 significant digits) enables flow volume control for a long time. The counters have 1 relay or OC output, which is programming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

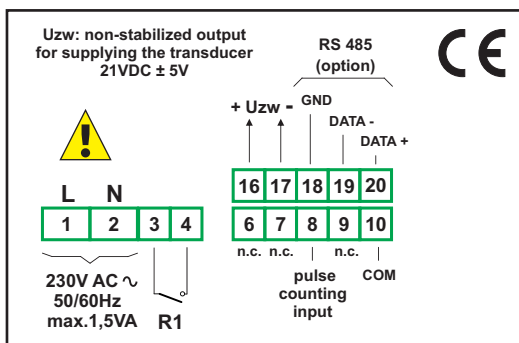
- display of instantaneous value and the balance,
- password protection,
- setting the volume units and the flow time,
- settable delay time of relay: up to 99 seconds or minutes,
- programmable decimal point position,
- threshold hysteresis setting,
- ACCESS option - easy threshold modification,
- available 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  $\mu$ s  
**Accuracy of instantaneous flow values:** selected in the 0  $\div$  0,0000 range  
**Instantaneous flow unit:** l or m<sup>3</sup> per second, minute or hour  
**Balance counter capacity:** over 4 x 10<sup>9</sup> 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 =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