

SPI-N118

- flow meter, batcher, totalizer
- 1 pulse counting input + 3 control inputs
- 0 or 2 relay (or OC) outputs
- isolated current output (option)
- power supply output 24V DC
- RS-485 / Modbus RTU
- display of instantaneous and the total flow values
- batching and counting of doses

IR remote controller
SIR-15



Remote controller is not a part of the device and is available on request as optional accessory.

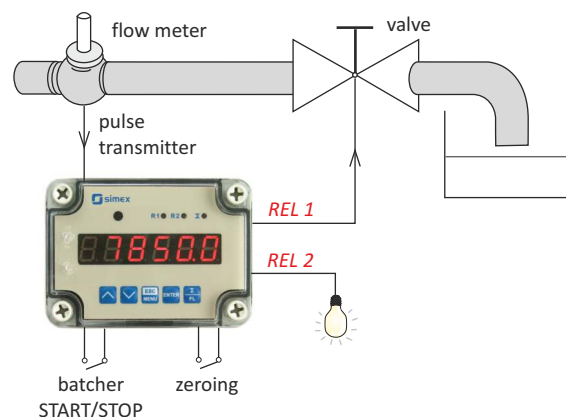
SPI-N118 are the flow meters in tight, wall mounted case (IP 65), designed to work in tandem with the pulse flow transducers with coefficients ranging from 0,01 to 9999,99 pulses per litre, equipped with electronic (open collector) or contact input. A flow meter allows to measure the actual instantaneous value and to record the total flow of fluids, gases or bulk materials. Wide range of total flow enables flow volume control for a long time. Build in a batcher function makes possible application of **SPI-N118** in a wide range of industry branches (food production, pharmacy, paint and varnish). The counters may have 2 relay (or OC) outputs, depending on the actual instantaneous, batcher or total value of the flow (R1).

TECHNICAL DATA

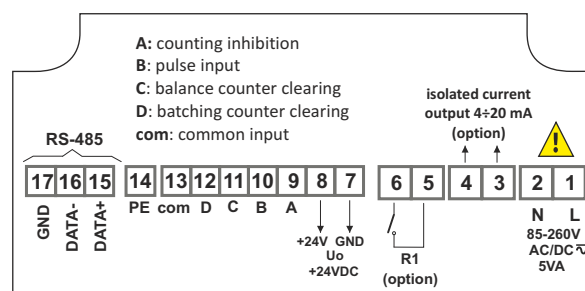
Power supply / Power consumption	19V ÷ 50V DC; 16V ÷ 35V AC or 85 ÷ 260V AC/DC, all separated; for 85 ÷ 260V AC/DC and 16V ÷ 35V AC power supply: max. 5 VA; for 19V ÷ 50V DC power supply: max. 5 W
Display	LED, 6 x 13 mm high, red, brightness adjustable in 8 steps
Displayed values range	0 ÷ 999999 + decimal point
Inputs	pulse, fully isolated: - counting input with debouncing filter and pulse width control, max. input frequency 10.0 kHz - zeroing of batcher counter, active edge or level - zeroing of total counter, active edge or level - counting blockade, active edge or level - common (COM)
Input levels	low level: 0 V ÷ 1 V; high level: 10 V ÷ 30 V
Accuracy	frequency: ± 0.02% (full temperature range) flow: equivalent to used flow sensor precision
Counter capacity	total flow: over 4 x 10 ⁹ pulses (max. 16 significant digits); batcher: up to 65536 m ³
Readout precision	instantaneous flow values: selected in the 0 ÷ 0.00000 of unit; total flow and batcher: selected in the 0 ÷ 0.000 of unit
Units	instantaneous flow values: l or m ³ per second, minute or hour; total flow and batcher: l or m ³
Pulse waiting time	settable from 0,1 to 39,9 seconds
Outputs (option)	0 or 2 x REL I _{max} =1A, U _{max} =30VDC/250VAC (cosφ=1) or OC I _{max} =30mA, U _{max} =30VDC, P _{max} =100mW
Passive current output (option)	0 or 1, isolated, operating range max. 2.8 ÷ 24 mA, resolution 12 bits (available with 1 relay or OC output, see ordering)
Power supply output	24V DC +5%, -10% / max. 100 mA, stabilized
Communication interface	RS-485, 8N1 and 8N2, 1200 bit/s ÷ 115200 bit/s, Modbus RTU (not galvanically isolated)
Operating temperature	0°C ÷ +50°C (standard), -20°C ÷ +50°C (option)
Storage temperature	-10°C ÷ +70°C (standard), -20°C ÷ +70°C (depending on option)
Protection class	IP 65
Case	wall-mounted; material: ABS + fibreglass
Dimensions (WxHxD)	without glands: 110 x 80 x 67 mm; with glands: 110 x 105 x 67 mm
Weight	max. 350 g

TYPICAL APPLICATIONS

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



EXAMPLARY PIN ASSIGNMENT



ORDERING

SPI-N118-14XX-1-X-XX1

number

of outputs:

0

2

options:

00 : no options

08 : operating temp. -20°C ÷ +50°C

power supply:

3 : 24V AC/DC

4 : 85V - 260V AC/DC

type of outputs:

0 : no output

1 : 2 x REL

2 : 2 x OC

9 : 1 x REL + 1 x current output

A : 1 x OC + 1 x current output