

PAC-94S

- process meter with a large display
- input 0/4...20 mA, 0/1...5V, 0/2...10V
- 0, 2 or 4 relay outputs (or OC)
- RS-485 / Modbus RTU
- option: active current output

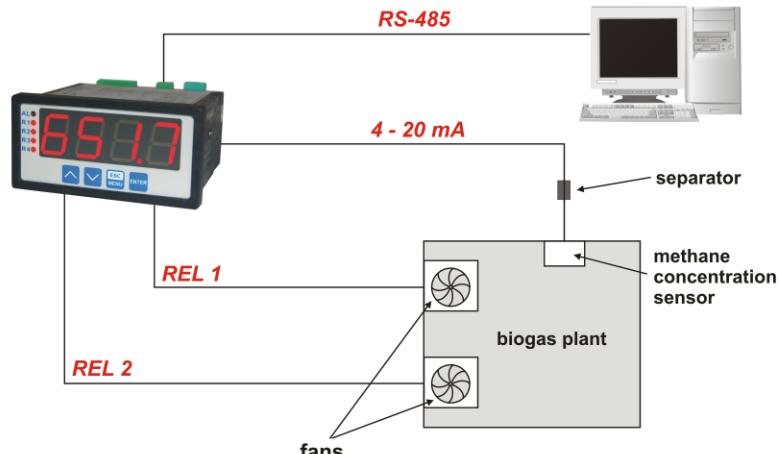


The PAC-94S process meter features current input with protection safeguarding the measuring resistor against damage. The device operates in the following modes: linear, root, square and user defined (max. 20 points). The 24V DC / 100 mA output is used to power the measuring transducers. The RS-485 enables data transmission in production process monitoring systems. 2 or 4 relay (or OC) outputs make it possible to adjust the level of the measured signal. These outputs can be controlled according to one or two threshold values.

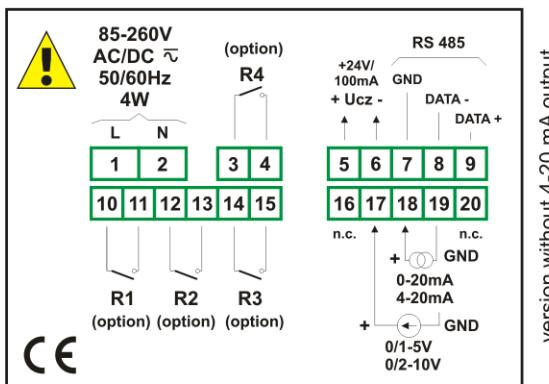
- programmable measuring range,
- programmable hystereses and delays of control outputs,
- password protected,
- programmable indication filtration,
- display brightness adjustable in 8 steps,
- overload-protected current input.

Typical applications

1. Measuring methane concentration in a biogas plant, activating fan 1 when level I is exceeded, activating fan 2 when level II is exceeded.



Exemplary pin assignment



Technical data

Power supply: 19...50V DC; 16...35V AC or 85...260V AC/DC

Power consumption: for 85...260V AC/DC and 16...35V AC power supply:
max. 4,5 VA; 19...50V DC power supply: max. 4,5 W

Display: LED, red, 4 x 20 mm high

Input: current 0...20 mA or 4...20 mA, programmable, input resistance < 65 Ω (typ. 55 Ω), overload-protected, input current limited to 40 mA;
voltage 0...5V, 1...5V, 0...10V or 2...10V, programmable, input resistance > 50 kΩ

Displayed values range: -999... 9999 + decimal point

Accuracy (25 °C): ± 0,1 % FSO

Tolerance band (0...50°C): max. 0,25 % FSO

Outputs: 0, 2 or 4; relays 1A/250VAC (cosφ=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. 0/4...20 mA, load resistance max. 700 Ω (option available with 2 relays, see ordering)

Communication interface: RS-485, 8N1 and 8N2, 1200 bit/s...115200 bit/s, Modbus RTU, not galvanically isolated from measuring inputs

Operating temperature: 0...50°C

Storage temperature: -10...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

Ordering

PAC-94S-18XX-1-X-XX5-N1

options:

00 : no options

01 : IP 65

power supply:

3 : 24V AC/DC

4 : 85...260V AC/DC

number of outputs:

0 : no output

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