**P18, P18D**
- Built-in temperature and humidity sensor or with probe on 0.5 m wire.
- Calculation of selected physical quantities (dew-point temperature, absolute humidity).
- Interface RS-485 Modbus.
- 2 analog outputs 0/4...20 mA or 0...10 V (option).
- Standard d.c. current or d.c. voltage output signal
- Storage of measured and calculated maximum and minimum values
- Visualisation of measured value on a LCD display (only P18D).

**P18L**
- Built-in temperature and humidity sensor.
- Supply from current loop
- 1 analog output 4 ... 20 mA.

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### EXAMPLE OF APPLICATION

**Inputs**

- **Type:**
  - **Temperature:** P18, P18D: -40...-20...60...85°C
  - **Relative humidity:** 0...100%

**Outputs**

- **Type:**
  - **4...20 mA:**
    - Admissible load resistance: $R_{\text{load}} \leq 100 \Omega$
    - Remarks: for P18/P18D
  - **0...10 V:**
    - Admissible load resistance: $R_{\text{load}} \geq 1 \text{k}\Omega$
    - Remarks: only P18/P18D

**Digital Interface (only P18/P18D)**

- **Interface type:** RS-485 Modbus
- **Transmission mode:** RTU, 8N1, 8N2, 8E1, 8O1
- **Baud rate:** 4.8; 9.6; 19.2; 38.4; 57.6; 115.2 kbit/s

**External Features**

- **Overall dimensions:** 38 × 58 × 118 mm
- **Weight:** 125 g
- **Protection grade:** ensured by the casing: IP65
- **Fixing:** on a wall

**Rated Operating Conditions**

- **Supply voltage:**
  - P18, P18D: 9...24 V d.c./a.c.
  - P18L: 19...30 V d.c.
- **Input power:** < 0.5 VA
- **Temperature:** ambient: -20...23...60°C
- **Humidity:** < 95%
- **Operating position:** any
- **Operating time:** 15 minutes
- **Air flow rate:**
  - P18/P18D: ≥ 0.5 m/s
  - P18L: ≥ 2 m/s
SAFETY AND COMPATIBILITY REQUIREMENTS

Electromagnetic compatibility
- noise immunity: acc. to EN 61000-6-2
- noise emissions: acc. to EN 61000-6-4
Isolation between circuits
- basic noise immunity: acc. to EN 61000-6-2
- noise emissions: acc. to EN 61000-6-4
Installation category
- III acc. to EN 61010-1
Maximal phase-to-earth operating voltage
- 50 V
Altitude a.s.l.
- < 2000 m

ORDERING

For more information about LUMEL's products please visit our website: www.lumel.com.pl