DIREKTRONIK
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HW group

HWg HTemp-485 T3411 / T3419

HWg PHTemp-485 T7410

Temperature, humidity, barometric pressure and dew point temperature sensors. IP 65/40 allows outdoor usage. Values are shown on a display and transmitted to a Poseidon unit over RS-485.

Multiple sensors can be connected to a single unit. Sensors can be combined with other types of Poseidon-compatible RS-485 sensors.

HTemp-485 T3419

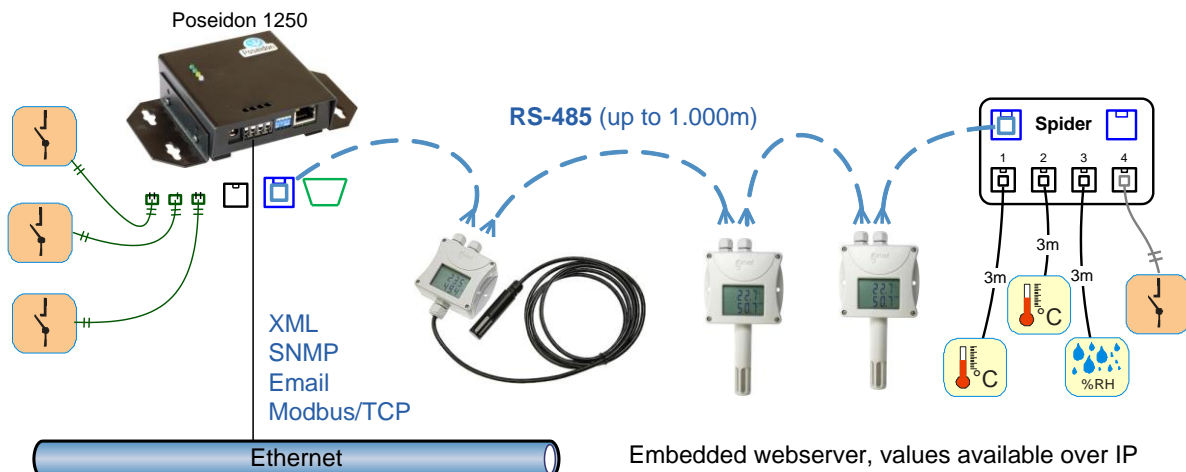|	Temperature	Humid	Pressure	Dew point
HTemp-485 T3411	-30 to +80°C	✓	✗	✓
HTemp-485 T3419	-30 to +105°C	✓	✗	✓
PHTemp-485 T7410	-30 to +80°C	✓	✓	✓

Sensors are shipped preconfigured with a RS-485 address in the range of „A; E; I; M; Q; V; a; e; i; m; q; v", and the HWg Poseidon protocol selected.

Other sensors modes can be configured with the *Tsensor* utility.
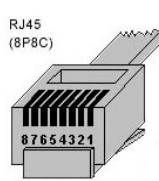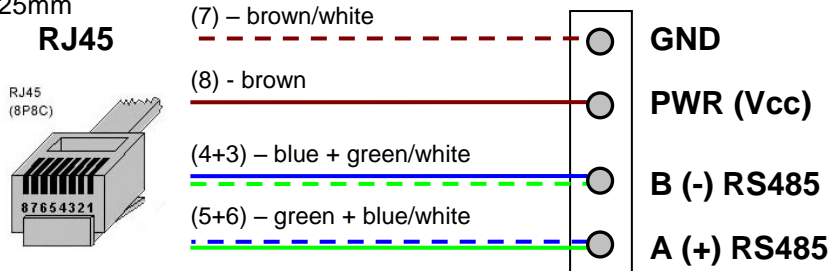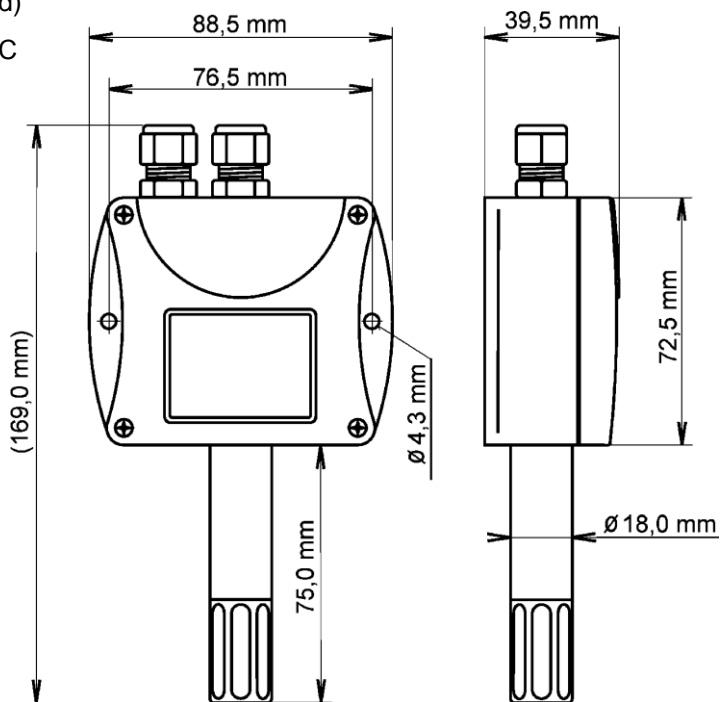
HTemp-485 T3411
PHTemp-485 T7410

Connecting the sensors to Poseidon units

- Sensors can be connected to **Poseidon 1250**
  Web server, online access to values over IP (SNMP, Modbus/TCP, XML).
  Sends an e-mail, SNMP trap, or SMS (local GSM modem) upon reaching a specified value.

- Sensors can be connected to **Poseidon 2251**
  Web server, online access to values over IP (Modbus/TCP, XML).
  Poseidon sends an e-mail or SMS (local GSM modem) upon reaching a specified value.
  Logger: Values are logged at specified intervals and e-mailed in a CSV file.

Poseidon 1250

RS-485 (up to 1.000m)

Spider
1 2 3 4

3m

3m   3m

°C

°C   %RH

XML
SNMP
Email
Modbus/TCP

Ethernet

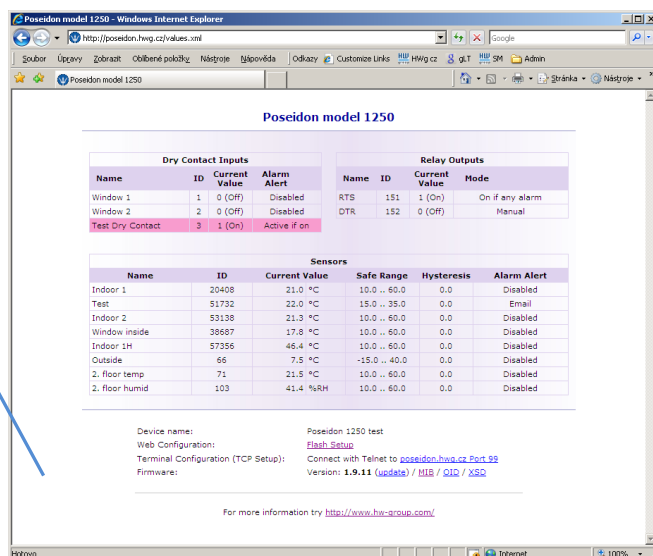Embedded webserver, values available over IP

Technical specifications

- **Power:** 9..30V / 0.5W (RS-485 is electrically isolated)

- **Temperature sensor:** Resistor, Pt1000-3850ppm/°C

- **LCD display**: Displays temperature and humidity

- **Ambient operating temperature:** -30 to +70°C

  - **Measurement accuracy:** ±0.4°C

- **Relative humidity range**: 0 to 100%

  - **Measurement accuracy:** ±2.5%RH (5..95% / 23°C)

  - **Temperature compensation:** -30 to +125°C

- **IP Protection:**

  - **Probe: IP40** (humidity and temperature) *Sensor location have influence to precision.*

  - **Box with connectors and display: IP65** (IP54 for T7410, pressure probe inside)

- **Filtering ability of the sensor cover:** 0.025mm

- **RS-485:** Impedance 96kΩ

  - HWg-Poseidon protocol: 9600 8N1

  - **To display the address** Open the jumper, shortly press the button inside the sensor. The display shows the initial address as the ASCII code of the first address letter (A = 65).

  - Connects directly to the RJ45 jack of the Poseidon unit.

  - The sensor body is equipped with two cable glands and two RS-485 bus connectors for easy daisy-chaining.

88,5 mm — **76,5 mm** — **39,5 mm**

(169,0 mm) — **72,5 mm** — **Ø 4,3 mm** — **75,0 mm** — **Ø 18,0 mm**

RJ45

RJ45 (8P8C) — 87654321

(7) – brown/white	GND
(8) - brown	PWR (Vcc)
(4+3) – blue + green/white	B (-) RS485
(5+6) – green + blue/white	A (+) RS485

Poseidon 1250 Web interface with a HWg HTemp-485 T3411 connected

Product ordering numbers

600 368	HWg HTemp-485 T3411	Temperature and humidity sensor, with a display. Outdoor usage with IP40 for probe limitation.
600 369	HWg HTemp-485 T3419	Temperature and humidity sensor, 1m cable, with a display. Outdoor usage with IP40 for probe limitation.
600 370	HWg PHTemp-485 T7410	Temperature, humidity and pressure sensor, indoor version, with a display.