

Product information

Wireless data loggers GHM DeltaBus

PHOTOMETRIC - RADIOMETRIC SENSORS

- LP 35 PHOT** Photometric sensor for measuring illuminance, CIE photopic filter, spectral response according to the standard photopic curve, diffuser for cosine correction. Measuring range: 0.1...200,000 lux. Cable length 2m.
- LP 35 P-A** Combined sensor with two sensors for measuring illuminance, with standard photopic spectral response, and irradiance in the **UVA** spectral range 315 nm...400 nm, diffuser for cosine correction. Illuminance measuring range: 0.3...20.000 lux. Irradiance measuring range: 1...10.000 mW/m². Cable length 2m.
- LP 35 UVA** Radiometric sensor for measuring irradiance in the **UVA** spectral range 315 nm...400 nm, diffuser for cosine correction. Measuring range: 1...10.000 mW/m². Cable length 2m.
- LP 35 UVB** Radiometric sensor for measuring irradiance in the **UVB** spectral range 280 nm...315 nm, diffuser for cosine correction. Measuring range: 1•10-3...100 W/m². Cable length 2m.
- LP 35 UVC** Radiometric sensor for measuring irradiance in the **UVC** spectral range 220 nm...280 nm, diffuser for cosine correction. Measuring range: 1•10-3...100 W/m². Cable length 2m.
- LP BL** Base with levelling device. Upon request for assembly with the sensor when placing the order. For photometric and radiometric probes.
- LP BL3** Adjustable wall support for Ø 30 mm photometric and radiometric sensor.

PYRANOMETERS

- LP PYRA 02** **First Class** pyranometer according to ISO 9060. Output in $\mu\text{V}/(\text{Wm}^{-2})$. Supplied with: shade disk, cartridge with silica-gel crystals, 2 spare sachets, levelling device, connector and calibration report. **On request 5 or 10 m cables with 4-pole M12 connectors.**
- LP PYRA 03** **Second Class** pyranometer according to ISO 9060. Output in $\mu\text{V}/(\text{Wm}^{-2})$. Supplied with levelling device and calibration report. **On request shade disk and 5 or 10 m cables with 4-pole M12 connectors.**
- LP SILICON-PYRA 04** Pyranometer with silicon photodiode for measuring the **global solar irradiance**, diffuser for cosine correction. Spectral range 350...1100 nm. Typical sensitivity: 10 $\mu\text{V}/\text{W m}^{-2}$. Measuring range: 0...2000 W/m². Fixed cable 5 m long..

RAIN GAUGES

- HD2013** Rain gauge with tipping bucket, area 400 cm², for temperature range +4 °C... +60 °C. Standard resolution 0.2 mm. On request when placing the order resolution 0.1 or 0.5 mm. Output contact normally closed.
- HD2013R** Rain gauge with tipping bucket, area 400 cm², equipped with heater for temperature range 20 °C...+60 °C. Standard resolution 0.2 mm. On request when placing the order resolution 0.1 or 0.5 mm. Output contact normally closed. Power voltage 12 Vdc or 24 Vdc \pm 10% / power absorption 165 W.
- HD2015** Rain gauge with tipping bucket, area 200 cm², for temperature range +4 °C... +60 °C. Standard resolution 0.2 mm. On request when placing the order resolution 0.1 or 0.5 mm. Output contact normally closed.
- HD2015R** Rain gauge with tipping bucket, area 200 cm², equipped with heater for temperature range 20 °C...+60 °C. Standard resolution 0.2 mm. On request when placing the order resolution 0.1 or 0.5 mm. Output contact normally closed. Power voltage 12 Vdc or 24 Vdc \pm 10% / power absorption 50 W.

LEAF WETNESS PROBES

- HD3501.5** Leaf wetness probe with double sensitive surface. IP 67 protection degree. 5 m cable ending with M12 connector.
- HD3501.10** Leaf wetness probe with double sensitive surface. IP 67 protection degree. 10 m cable ending with M12 connector.



Product information

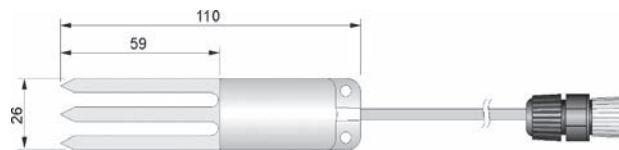
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SOIL MOISTURE PROBES

HD3510.1 2-electrode probe for measuring the soil humidity. With integrated NTC 10 kΩ temperature sensor. M12 connector. 5 m cable.



HD3510.2 3-electrode probe for measuring the soil humidity in restricted volumes. With integrated NTC 10 kΩ temperature sensor. M12 connector. 5 m cable.



WIND SPEED AND DIRECTION PROBES

HD54.3 Passive cup anemometer. Measuring range: 1...65 m/s. Operating conditions: -40...+60 °C / 0...100% RH. Rod mounting. Height 81 mm assembled.

HD54.D Wind direction vane probe. Measuring range: 0...360°. Dead band: typical 4°, maximum 8°. Threshold: 1 m/s. Operating conditions: -40...+60 °C / 0...100% RH. Rod mounting. Dimensions: 210 x 120 mm.

ACCESSORIES

- HD35AP-S** Further copy of the CD-ROM with HD35AP-S basic software for the system configuration, the real-time viewing of the measures and the data download. The access to the data is allowed only from the PC where the Data Base is installed. For Windows® operating systems.
- HD35AP-PLUS** Advanced version of the HD35AP-S software that provides access to the Data Base from all the PCs connected in the network to the server where the Data Base is installed. For Windows® operating systems.
- CP23** Direct USB connection cable with male mini-USB connector on the side of the instrument and male A type USB connector on the side of the PC.
- CPM12-8P.2** 8-pole cable. Length 2 m. 8-pole M12 connector on one side, free wires on the other. For RS485 connection to HD35APS base unit.
- CPM12-8P.5** 8-pole cable. Length 5 m. 8-pole M12 connector on one side, free wires on the other. For RS485 connection to HD35APS base unit.
- CPM12-8P.10** 8-pole cable. Length 10 m. 8-pole M12 connector on one side, free wires on the other. For RS485 connection to HD35APS base unit.
- SWD06** Mains power adapter 100-240 Vac / 6 Vdc - 1 A.
- HD35.03** Plastic support for the removable installation of base unit, repeaters and data loggers in housing for indoor use.
- HD35.11K** Pair of flanges made of anodized aluminium alloy for the fixed installation of base unit, repeaters and data loggers in housing for indoor use. Pin for padlock and padlock included.
- HD35.24W** Flange for fixing to the wall the models HD35EDW... in waterproof housing.
- HD35-ANT** Spare external RF antenna for the base units HD35AP... (except HD35APD-EXT) and the repeater HD35RE (not for HD35REW).
- HD35-ANT2** Spare external RF antenna for the base unit HD35APD-EXT.