

DEWPOINT Portable Hygrometer type DPH-31

- Dewpoint measure range **-100°Cdp to +20°Cdp**
- Calibration traceable to international standards
- Rapid response
- Up to 24 working hours on **Li-ion battery**
- Rugged IP 65 enclosure
- Line or atmospheric dewpoint measurement
- 4-20 mA output
- Integral sampling system**
- Charging from DC source (attached) or 12V DC
- Atmospheric or pressure** (up to 3 MPa) dewpoint



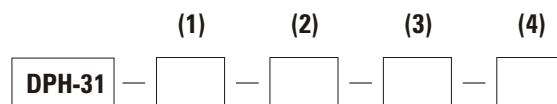
The DPH-31 portable hygrometer is microprocessor-based meter that has been engineered to make moisture measurements in air and process gases on plants or in the field simple and quick. The DPH-31 is economical to buy and easy to operate. The DPH-31 incorporates a sampling system which allows practical connection to any air or gas line, free flow or at up to 3 MPa pressure (choosing by integrated valve). The DPH-31 is fitted with a Lithium-ion battery giving (depending of load) a working time between charges of 16 to 24 hours. The hygrometer is equipped with a 4-20 mA output for connection to a chart recorder.

TECHNICAL DATA

Humidity measurement range	-100°C...+20°Cdp, -148°Fdp...+68°Fdp*, 0.5...23000 ppm(v)*
Humidity measurement accuracy	± 2°Cdp
Flow rate	max 3l/min
Max. pressure	3 MPa
Operating temperature / Charging temperature	0°C to +40°C / 0°C to +40°C
Display / Resolution	LED, 4-digits (20mm high) / 0,1°Cdp; 0,1°Fdp; 1ppm(v)
Output	analog 4-20mA (-100°C...+20°Cdp*)
Power supply	12V DC (accepts 10...20V), max. 14W (when charging)
Battery / Charging time	Lithium-ion (giving 16h up to 24h use) / 2 to 3 hours
Sample connections	6mm quick connect, 1/4 inch Swagelok*
Sample tube	6mm OD PTFE (1,5 meter long*)
Filter	HDPE sintered replaceable disk filter at inlet port
Case material / Ingress protection	polypropylene / IP67 (closed case), IP 50 (open case)
Dimensions / Weight	270 x 248 x 124 mm / ca. 3,0 kg
Power supply	100 ... 240V AC power adapter, 12V, 1A

*other parameters and option on request

ORDERING CODE



- | | |
|--|---|
| (1) Value of bottom level output (4mA), if other than -100 | value in units described at point (3) below |
| (2) Value of top level output (20mA), if other than +20 | value in units described at point (3) below |
| (3) Unit, if other than °Cdp | °Fdp, ppm(v) |
| (4) Length of sample tube, if other than 1,5 meter | value in meters |

Ordering example: **DPH-31** means °Cdp hygrometer with -100 ... 20°Cdp output
DPH-31-(-60)-0-°Fdp-2 means °Fdp hygrometer with -60 ... 0°Fdp output, with 2 meters long sample tube