

HygroLog and HygroLog D

Humidity and Temperature logger for digital HygroClip® probes.

The HygroLog data logger uses the HygroClip range of digital probes for long term recording of humidity and temperature conditions. By using the digital signal output from the HygroClip probes, measurement precision is optimised with no signal loss over extended cable lengths and no external interference can influence measured values. Calibration data is maintained within the probe, which means there is no need to calibrate the whole system, and probes can be interchanged in seconds. In conjunction with the HW3 software, the HygroLog can be supplied with full validation documentation.



HygroLog

Self contained data logger for HygroClip® digital probes

Key features:

- Stores up to 2 x 5000 values for humidity and temperature
- Digital signal processing for maximum accuracy
- Logging interval from 15 seconds to 2 hours
- Standard alkaline batteries used
- Operating modes selectable: Start/stop or loop mode
- Operating range Logger: 0...100 %rh; -30 ...70°C (Battery-dependent; with alkaline batteries -10...50°C)
- Measuring range Probes: -50...200°C, probe dependent

Order code:

HygroLog (probe must be ordered separately)



HygroLog D

Humidity and Temperature data logger with LCD display for HygroClip® digital probes

Key features:

- Stores up to 2 x 5000 values for humidity and temperature
- Digital signal processing for maximum accuracy
- Logging interval from 15 seconds to 2 hours
- Standard alkaline batteries used
- Operating modes selectable: Start/stop or loop mode
- Operating range Logger: 0...100 %rh; -10 ...50°C (Battery-dependent; with alkaline batteries -10...50°C)
- Operating range -50...200°C (probe dependent)
- Visual alarm indicators on LCD for temperature & humidity
- Battery status display
- Status display saving / busy

Order code:

HygroLog-D (probe must be ordered separately)

Software HW3 and Data Cable (FDA CFR 21 Part 11)

The validated multilingual software HW3 is used for programming the loggers as well as to retrieve data. Data may be displayed in a table or graph form. A language editor gives the user the possibility to translate the text into his own language. Psychrometric calculations such as dewpoint may also be performed within the software, and the option to show these values on the graphic is also included. Calculations may be executed by using a pressure constant or, depending on the instruments connected, dynamically with a pressure probe. As the software can also be used with the full ROTRONIC product range, it offers a variety of other features, such as sending e-mails in case of alarms, data archiving, etc. Of course, measurement data can also be exported to MS Office applications.

For extended description see section HW3 software.

Order code:

HygroData HL

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Feature Overview

Highly precise and stable humidity and temperature sensors

Robust IP65 enclosure

Interchangeable probes
Calibration can be updated, or the range of application changed by the simple connection of a different probe. See next page for available options.

Integrated LC display
Includes battery status and alarm indicators

10000 point integrated memory

Connection socket for probe or PC interface cable

Programmable measurement interval
15 seconds to 2 hours

Wall mounting bracket with option to connect mains power adapter

User replaceable batteries



HygroClip probes for HygroLog Datalogger

A range of probes for different applications are available for the HygroLog Dataloggers. All probes are based on the digital HygroClip technology, and can be interchanged within seconds without need for recalibration. With special adaptor cables, even probes designed for transmitters may be used.



HygroClip S/S1

Standard sensor module for humidity and temperature. A wire mesh filter provides sensor protection against dust and high air velocity. Dimensions $\varnothing 15 \times 100$ mm. IP rating: IP65

HygroClip S1 is a specially calibrated and certified to provide measurement accuracy of $\pm 1\%$ rh.

Measurement range: $-40 \dots 85^\circ\text{C}$, $0 \dots 100\%$ rh
Accuracy (S1): $\pm 1.0\%$ rh, ± 0.2 K (at 23°C)
Accuracy: $\pm 1.5\%$ rh, ± 0.3 K (at 23°C)

Order code:
HygroClip S1
HygroClip S



\varnothing : 15 mm Length: 100 mm

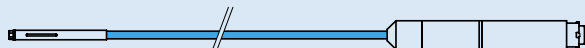


HygroClip SC04 / SC05

4/5 mm cable probe for humidity and temperature measurements in small spaces such as product & packaging testing, concrete, electronic test and climatic chambers. Cable length 2m

Measurement range: $-40 \dots 100^\circ\text{C}$, $0 \dots 100\%$ rh
Accuracy: $\pm 1.5\%$ rh, ± 0.3 K (at 23°C)

Order code:
HygroClip SC04 4 mm \varnothing probe
HygroClip SC05 5 mm \varnothing probe



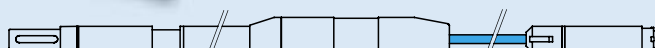
\varnothing : 4/5 mm Cable: 2 m

HygroClip HK 25 /HK40

High temperature probe for measurements in ducts, dryers, climatic chambers etc. Probe length 250 or 400 mm. Wire mesh filter included.

Measurement range: HK25: $-50 \dots 150^\circ\text{C}$, $0 \dots 100\%$ rh
HK40: $-50 \dots 200^\circ\text{C}$, $0 \dots 100\%$ rh
Accuracy: $\pm 1.5\%$ rh, ± 0.3 K (at 23°C)

Order code:
HygroClip HK25 (250 mm, max. 150°C)
HygroClip HK40 (400 mm, max. 200°C)



\varnothing : 15 mm Probe length: 250 mm/400 mm Cable: 2 m

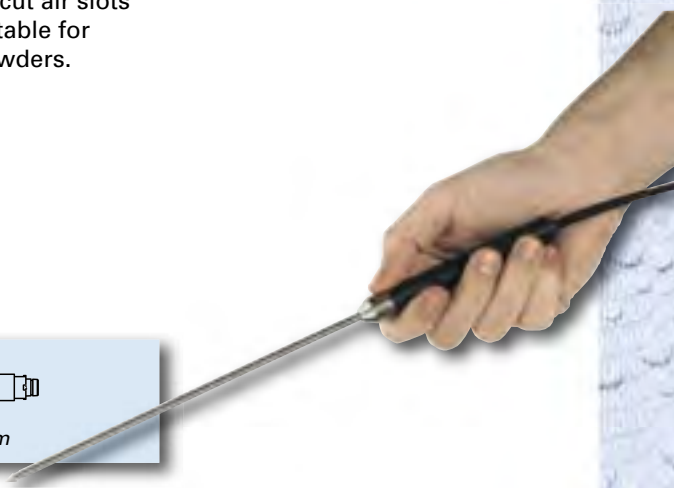
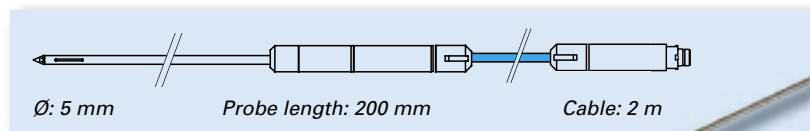
HygroClip Probes for HygroLog Datalogger

HygroClip SP05

Fast response 5 mm diameter insertion probe with laser cut air slots for bulk goods such as corn, wheat, & granules. Also suitable for measurements in concrete and brick. Not suitable for powders. Probe length 200 mm

Measurement range: -40...85 °C , 0...100 %rh,
Accuracy: ±1.5 %rh, ±0.3 K (at 23 °C)

Order code:
HygroClip SP05

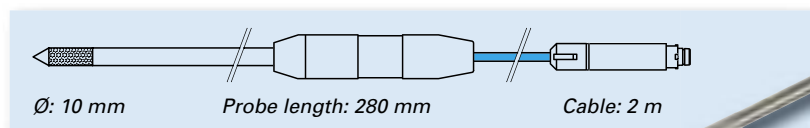


HygroClip HP28

Robust 10 mm diameter tubular probe for measurements in bulk products such as powders & granules. Probe length 280 mm, 2m cable, steel sinter filter.

Measurement range: -40...85 °C, 0...100% rh
Accuracy: ±1.5% rh, ±0.3 K (at 23 °C)

Order code:
HygroClip HP28



HygroClip HS28 Sword Probe

For measurements in paper stacks/rolls. Lightweight, yet robust aluminium blade for fast temperature and humidity equilibrium. Blade 280 x 18 x 4 mm.

Measuring range: -40...85 °C, 0... 100 %rh
Accuracy: ±1.5 %rh, ±0.3 K (at 23 °C)

Order code:
HygroClip HS28

