

EUROPE'S LARGEST SELECTION OF TEST & MEASUREMENT EQUIPMENT FOR HIRE

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DATA-SHEET



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WHY BUY
WHEN YOU CAN HIRE

HYGROLOG HL20/21



ECONOMICAL & PRECISE.

BASED ON THE AIRCHIP3000 DIGITAL TECHNOLOGY.

INNOVATION IN HUMIDITY AND TEMPERATURE MEASUREMENT

- Highest accuracy at 0.8 %rh and 0.2 °C
- Outstanding long term stability
- 20000 data point memory with date & time stamps
- Programmable alarm limits
- Programmable recording intervals
- Psychrometric calculations of dew and frost point values available
- FDA 21 CFR Part 11 / GAMP 4 compliant
- UART to USB interface
- Long battery life



rotronic
LEADING IN HUMIDITY MEASUREMENT

HYGROLOG HL20/21

SPECIFY THE BEST: HYGROLOG HL20/21 ADVANTAGES AT A GLANCE.

The new HygroLog HL20/21 series is the latest development of data loggers for relative humidity, temperature, dew point and frost point. These loggers give you the accuracy and reliability to measure and record your essential data whether it be in pharmaceutical clean rooms, storage facilities, manufacturing areas, buildings, museums or any other critical area. The HL20 and HL21 are fully compliant with FDA 21 CFR part 11 and GAMP 4 requirements for electronic records and electronic signatures (ERES).

AirChip3000

- Temperature compensates humidity with over 30000 reference points
- Dew/frost point calculation
- Sensor auto-diagnostics and automatic correction
- Active alarming and information
- Conforms to FDA21 CFR Part 11 and GAMP4 (audit trail)



Optional display

- Display of data on a clear, backlit graphic display
- Battery charge indicator
- Display of measured and calculated data
- Function key to start and stop logging
- Display resolution to 2 decimal places



Data logging function

- HL20: Logs up to 20000 value pairs, relative humidity and temperature
- HL21: Logs up to 20000 data values, temperature
- Each record is date and time stamped (real-time clock)
- Adjustable log interval
- Two data recording modes: (start-stop or loop)

Alarm function

Visible alarm can be programmed for the HL20 or HL21 detects the following:

- Out-of-limits value (defined with HW4 software)
- Communication loss with the probe
- Sensor failure and sensor drift

APPLICATIONS.

Long term recording of humidity and temperature measurements is essential in many production, storage, transportation, display and test applications as well as in buildings and museums. They provide valuable information on the levels and variation of humidity and temperature which can have a significant impact on people, materials and objects.

Relative humidity and temperature logger.

HygroLog HL20(D)



HygroLog HL20



HygroLog HL20D

Order codes:

HL-20 (without display)

HL-20D (with display)

HygroLog HL20(D)-Set

Set:

- HL20 or HL20D
- HW4 software
- Cable AC3006



Order codes:

HL-20-Set

HL-20D-Set

Temperature logger.

HygroLog HL21(D)



HygroLog HL21



HygroLog HL21D

Order codes:

HL-21 (without display)

HL-21D (with display)

HygroLog HL21(D)-Set

Set:

- HL21 or HL21D
- HW4 software
- Cable AC3006



Order codes:

HL-21-Set

HL-21D-Set

TECHNICAL INFORMATION.

Data Logging.

The values stored in the HygroLog can be displayed graphically using the HW4 software. You can determine the storage interval, the alarm limits, the recording mode and much more.



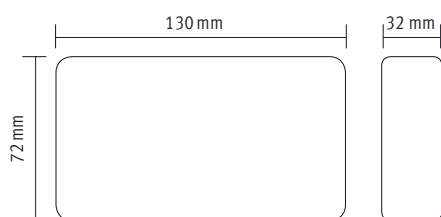
HygroLog HL20



HygroLog HL20D



Dimension



Device type	Humidity-temperature data logger with internal sensor(s)
Battery type	3 x AA (1.5 V) alkaline
Battery life	Depends on log interval and other settings. Examples based on a 30 minutes log interval: - Models w/o LC display: 20 months - Models with LC display, display sleep function set to 1 minute: 13 months
Low battery indication	Yes (with HW4 software or with optional display)
Measuring range	0...100 %rh / -10...60 °C
Measurement accuracy at 23 °C	±0.8 %rh / ±0.2 °C
Repeatability	0.3 %rh / 0.05 °C
Long term stability	<1 %rh / year / < 0.1 °C / year
Response time	Humidity: typical 3 min. Temperature: typical 10 min. (both depend on air flow)
Psychrometric calculations	Dew or frost point (user configurable setting)
Start-up time	1.9s (typical)
Data refresh rate	1.7s (typical)
Recording capacity	HL20: 20000 value pairs HL21: 20000 values
Real time clock	Yes, adjustable via PC
Logging modes	Start-stop (recording stops when memory is full) Loop: oldest data is dumped to make room for latest data
Log interval	Min. 5 sec, up to 1 hour in 5 sec. increments
Interface type	UART (Universal Asynchronous Receiver Transmitter)
Optional display	LC, 1 or 2 decimal resolution, backlight, alarm and low battery indication
LED indicator	5 sec. green flash when recording data 5 sec. red flash for out-of-limit value or logger problem
Housing material	ABS
Housing protection grade	HL20: IP 40, HL21: IP65
Weight	About 210 g (7.4 oz)
Solder type	Lead free (RoHS directive)
FDA / GAMP directives	Compatible
Operating limits	-10...60 °C (models w/o display) 0...50 °C (models with display) 0...100 %rh, non condensing
Overall dimensions	130 x 72 x 32 mm (5.1 x 2.8 x 1.3")

Subject to technical change without notice. Errors and omissions excepted.

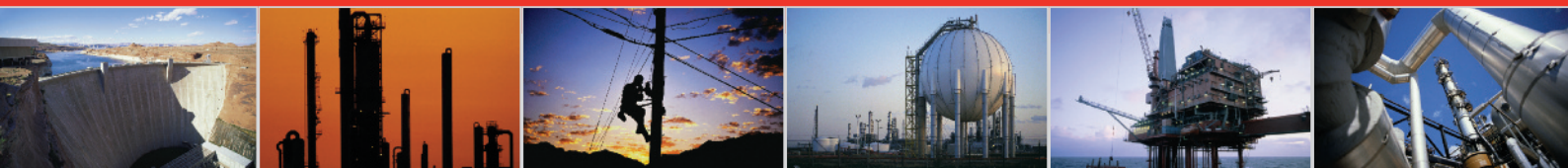
Interested in further information? A complete and up-to-date overview of our HygroLog HL20/21 series is available on our web site www.rotronic-humidity.com. We would also be happy to advise you on the phone.

Change over now to the HygroClip2 probes with integrated AirChip3000 technology for your temperature and humidity measurements. You can find detailed information about our probes at www.rotronic-humidity.com. We would also be happy to advise you in person or on the phone.

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ROTRONIC AG, Grindelstrasse 6, CH - 8303 Bassersdorf, Tel. +41 44 838 11 11, Fax +41 44 836 44 24, www.rotronic.ch
ROTRONIC Instruments (UK) Ltd, Crompton Fields, Crompton Way, Crawley, West Sussex, RH10 9EE, UK, Phone +44 (0)1293 571000, Fax +44 (0)1293 571008, www.rotronic.co.uk
ROTRONIC Instrument Corp, 135 Engineers Road, Hauppauge, NY 11788, USA, Phone, +1 631 427-3898, Fax, +1 631 427-3902, www.rotronic-usa.com

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You can take advantage of expert advice to ensure you get the best, most appropriate and cost effective equipment for the job. We supply a wide variety of industries, so if there is another way to do the job or save you time and money we'll pass on the benefit of our experience for free.

Honest advice, just a phone call away.

If we don't have a particular item, rather than hiring you something that won't do the job, we would rather direct you to an alternative supplier. You will always be provided with full instructions and if you still need help, call our technical team on Nationwide Low Call 0333 6000 600. Our aim is to save you time, frustration and money.

Top quality equipment from major manufacturers.

With Inlec you'll get the most accurate, reliable and well-maintained equipment available. Prices are regularly reviewed to ensure you always enjoy the best value for money. We have made a significant investment in test equipment so we ensure that it's well packed to minimise damage and delay.

We really do listen to you.

You won't waste your time contacting Inlec. Every request for equipment is logged and carefully considered. Listening to our customers helps keep our product range up to date and relevant. If you are unhappy about any aspect of our service please let us know so we can put it right.

YOUR 5 WAY GUARANTEE

1 GUARANTEE SAME DAY DESPATCH

We understand why prompt delivery is important to you. So, if we confirm your order before 3pm, you are guaranteed same day despatch.

2 OUR PRICE GUARANTEE

Inlec guarantee you real value for money. Our price match policy is simple - if you can hire the same product for less elsewhere, we guarantee to match that price and reduce it by a further 10% of the difference - and still deliver our industry leading technical and customer support.

For full details check our price-match guarantee online

3 TOP QUALITY GUARANTEED

All equipment is thoroughly checked prior to dispatch to ensure you receive it in full, safe working order. Your shipment will be securely packed and include manufacturer's instructions, accessories or consumables and a valid calibration certificate where appropriate. In addition, Inlec offer a 24 hour replacement service if you decide the equipment is not suitable for your application*.

4 FRIENDLY, KNOWLEDGEABLE ADVICE GUARANTEED

Inlec are happy to provide you with free advice, from an unbeatable team of experienced, knowledgeable and friendly engineers and hire experts.

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Throughout your hire we will work hard to ensure you enjoy the very best in support and service from Inlec. We guarantee you won't find better service anywhere in the industry.

*subject to availability and conditions

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Nationwide Low Call **0333 6000 600**
Online: **www.inlec.com**

Inlec UK Ellerbeck Way, Stokesley Business Park, Stokesley N Yorkshire TS9 5JZ United Kingdom



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