255-704-B Evaporation Logger

The **255-704-B Evaporation Logger** is designed to record the output of an analog evaporation gauge (NovaLynx 255-100). The logger stores up to 1.9 million measurements with 16-bit resolution. The LCD screen displays the current water level in the evaporation pan, along with logging status, battery status, and memory consumption.

The logger is protected by a waterproof enclosure that is strapped to the outside of the evaporation gauge. The display can be viewed without removing the clear cover. Easy to use and reliable, with proper care the 255-704-B will provide years of accurate and reliable measurements.

Features

- Large display with status indicators
- Calibrated in inches or millimeters
- Simple setup, launch, and download via USB connection
- 1 year typical battery life (2 AAA alkaline batteries)

Optional air and water temperature sensors can be connected to the logger to record temperature readings along with the pan water level. The logger calculates minimum, maximum, average, and standard deviation statistics.

195-704-B Evaporation Logger
(255-100 Evaporation Gauge sold separately)

Analog Channels	4 high resolution(16-bit) channels, 0 to 2.5 Volt 1 internal battery monitor channel
Memory	4 MB (1.9 million measurements, maximum)
Logging Rate	1 second to 18 hours, 12 minutes, 15 seconds
Logging Mode	Normal, burst, or statistics
Sensor excitation	2.5 Volts, 4 mA total. Excitation 5 mS before sensor reading begins.
Battery type	Two AAA 1.5 V alkaline batteries, user replaceable
Clock	± 1 minute per month at 25°C (77°F)
Communications	USB 2.0 interface
Operating Range	Logging: -20° to 70°C (-4° to 158°F); 0 to 95% RH (non-condensing) Launch/Readout: 0° to 50°C (32° to 122°F) per USB specification
Size	5.12 x 5.88 x 2.95 in. (13.0 x 15.0 x 7.5 cm)
CE	The CE Marking identifies this product as complying with all relevant directives in the European Union (EU).

Ordering Information

255-704-B	Evaporation Logger, with NEMA enclosure. (2 AAA batteries included, USB cable not supplied)
195-BHW-KIT	HOBOware® for PC/Mac on CD, 6' USB cable

Optional

255-100	Analog Output Evaporation Gauge (when ordered together, the logger and gauge are pre-wired)
210-TMC20-HD	Water or Air Temperature Sensor, 20' cable
380-280	Solar Shield for Air Temperature Sensor

Logger

Operating Range	Logging: -20° to 70°C (-4° to 158°F); 0 to 95% RH (non-condensing); Launch/Readout: 0° to 50°C (32° to 122°F) per USB specification
Logging Rate	1 second to 18 hours, 12 minutes, 15 seconds
Logging Modes	Fixed interval (normal), burst, or statistics
Memory Modes	Wrap when full or stop when full
Start Modes	Immediate, push button, date & time, or next interval
Stop Modes	When memory full, push button, or date & time
Restart Mode	Push button
Time Accuracy	±1 minute per month at 25°C (77°F), see Plot A
Power Source	Two AAA 1.5 V alkaline batteries, user replaceable, and USB cable
Battery Life	1 year, typical with logging rate of 1 minute and sampling interval of 15 seconds or greater
Memory	4 MB (1.9 million measurements, maximum)
Download Type	USB 2.0 interface
Full Memory Download Time	Approximately 1.5 minutes
LCD	LCD is visible from 0° to 50°C (32° to 122°F); the LCD may react slowly or go blank in temperatures outside this range
Size	10.8 x 5.41 x 2.54 cm (4.25 x 2.13 x 1 in.)
Weight	107.5 g (3.79 oz)
Environmental Rating	IP50
CE	The CE Marking identifies this product as complying with all relevant directives in the European Union (EU).

Note: The HOBO U-Shuttle (U-DT-1) is not compatible with this logger.