

DataBank™

Datalogger



DataBank Datalogger

The DataBank is a universal meter, datalogger, and power supply which is easy to connect and use. Data can be stored and downloaded to a PC. Sensor calibration is simplified through continuous sensor readings with results graphically displayed. Sensor power is provided directly from the DataBank which is powered by internal rechargeable batteries, an external 9-30VDC power source such as a 12V marine battery, or AC power. Available in two configurations: a handheld package for easy transport during mobile field studies and an enclosure for long-term stationary field deployment.

DataBank Highlights

- Stores up to 9,999 records and 16 calibrations
- Includes auto-gain function
- Simplifies sensor calibration
- Station provides protection against corrosion, windblown dust and rain, water splash-down
- Works with Cyclops-7 Submersible Sensors
- Works with C-sense pCO₂ Sensors

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DataBank Electrical Specifications

Selectable Sensor Parameters	Voltage: Software selectable 3 to 12 volts Current: 150 mA at 3V to 100 mA at 12V Warm-up Time: 0-25 seconds Gain: 1-4
Inputs	Input Selection: Switch; <i>Differential Voltage, Differential Current or Dual Current</i> Range: 0-5V or 0-25 mA Resolution: 12 bits Sampling Rate: 1000 Hz (bursts); groups of bursts re-averaged @ 30 Hz
Outputs	Two, Open Drain, up to 200 mA @ 15V max (Used primarily for gain selection)
Storage	Non-Volatile, 1280 Kb (9,999 records, 1 record = sensor reading, date, time and location)
Current Draw	Computer: <=45 mA (at full charge). Sleeping <20 uA LCD Backlight: Full power ~ 30 mA. Low Power ~ 15 mA
Battery	Type: NiMH rechargeable, 4.8 volts, 4,000 mA/Hr. Life: Continuous up to 70 hours (dependant on sensor/settings) Note: When using the DataBank with the C-sense, it is recommended that the voltage be set to 6 and the warm-up time be set to 3 minutes. Using these settings with a 5 minute sampling interval, you can expect a fully charged DataBank to collect 300 samples.
Charge Time	~3 hours (for a fully discharged battery; ambient @ 25 degrees C)
Communications	USB

Handheld DataBank Physical Specifications

Size	Main body: 4.6"W x 3.2"H, x 3.4"D, Handle: 4.8" long (117mm W x 81mm H x 86 mm D, Handle: 122mm) Overall: 11"H (279 mm H) with handle, strain-relief and connector.
Weight	1.7 lb. (.76 kg) w/o pigtail

DataBank Station Physical Specifications

Size	8.27"W x 8.27"H x 5.12"D (210 mm W x 210 mm H x 130 mm D)
Weight	3.45 lb. (1.56 kg) w/o pigtail
Enclosure	Approximates IP66 & NEMA 4x Dessicant provides quick indication of moisture intrusion

Ordering Information

All instrument packages include rechargeable NiMH batteries, PC/Power USB interface cable, AC to DC charger supply, and software. Stationary packages include External Power connection, which is available as an option for Handheld DataBank

BASE INSTRUMENT	PART NUMBER
Handheld DataBank Datalogger	2900-199
DataBank Datalogger Station	2910-199
CYCLOPS-7 CABLE OPTIONS	PART NUMBER
0.6 Meter Pigtail Cable w/ Locking Sleeve	105-0580
5 Meter Pigtail Cable w/ Locking Sleeve	105-0585
10 Meter Pigtail Cable w/ Locking Sleeve	105-0581
25 Meter Pigtail Cable w/ Locking Sleeve	105-0582
50 Meter Pigtail Cable w/ Locking Sleeve	105-0583
C-SENSE CABLE OPTIONS	PART NUMBER
0.6 Meter Pigtail Cable w/ Locking Sleeve	105-2410
5 Meter Pigtail Cable w/ Locking Sleeve	105-2411
10 Meter Pigtail Cable w/ Locking Sleeve	105-2412
25 Meter Pigtail Cable w/ Locking Sleeve	105-2413
50 Meter Pigtail Cable w/ Locking Sleeve	105-2414
DATABANK ACCESSORIES	PART NUMBER
Travel Case for Handheld	142-2900
Car Charger	2900-151
External Power Option for Handheld	2900-940

Contact Us

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