

DataBank™ Datalogger



DataBank Datalogger

The DataBank is a universal meter, datalogger, and power supply which is easy to connect and use. Data, including GPS information on the Handheld DataBank, 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
- Handheld GPS-enabled for Garmin GPS units with serial and text out functions
- Station provides protection against corrosion, windblown dust and rain, water splash-down

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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)
Charge Time	~3 hours (for a fully discharged battery; ambient @ 25 degrees C)
Communications	USB
GPS Power (Handheld only)	3.3 VDC @ up to 300 mA; If DataBank is off, GPS is self-powered Note: Some GPS units cannot be powered by the DataBank

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 GPS or 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.

INSTRUMENT	PART NUMBER
	HANDHELD / STATIONARY
DataBank w/ 2ft Cyclops Interface Cable	2900-002 (Handheld only)
DataBank w/ 5m Cyclops Interface Cable	2900-005 / 2910-005
DataBank w/ 10m Cyclops Interface Cable	2900-010 / 2910-010
DataBank w/ 25m Cyclops Interface Cable	2900-025 / 2910-025
DataBank w/ 50m Cyclops Interface Cable	2900-050 / 2910-050

DATABANK ACCESSORIES	PART NUMBER
Travel Case for Handheld	142-2900
GPS Mounting Bracket for Handheld	
Garmin eTrex	2900-400
Garmin Geko	2900-401
Car Charger	2900-151
<i>Other GPS & sensor cables available</i>	

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