DataBank™
Handheld Datalogger

TURNER DESIGNS

DataBank Handheld Datalogger

The DataBank is a rugged and self-contained universal meter, datalogger and power supply. Specifically designed for use with the Cyclops and C-sense product lines, sensor calibration and operation are simple. The DataBank records high-frequency data which may be downloaded and graphically displayed on a pc. Sensor power is provided directly from the DataBank's internal rechargeable batteries. Alternatively, an external +12 VDC power can be used. Various sensor cable lengths are available to allow sampling at multiple depths.

DataBank Highlights

- Stores up to 9,999 records and 16 calibrations

- Includes auto-gain function

- Simplifies sensor calibration

- Works with Cyclops Submersible Sensors

- Works with C-sense pCO_2 Sensors

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; *Differential Voltage, Differential Current or Dual Current* 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 rechargable, 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

Ordering Information

All instrument packages include rechargeable NiMH batteries, PC/Power USB interface cable, AC to DC charger supply, and software.

BASE INSTRUMENT	PART NUMBER
DataBank Handheld Datalogger	2900-199

CYCLOPS 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	142-2900
Car Charger	2900-151
External Power Option	2900-940

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

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