ACR OWL DATA LOGGER

Single Channel, Configurable Data Loggers

100	Internal Temperature
200	External Temperature
300	Electric Current
400	DC Voltage
500	DC Current

Features

- ☐ **10-year battery life**
- ☐ **Memory capacity of 32,767 readings**
- ☐ **Optical data transfer**
- ☐ **Flashing visual alarm**

Front

Optical port/alarm.

Convenient locking hole.

Sensor/Connector.

Back

SERIAL NUMBER
10000
MADE IN CANADA

Visual serial number identification.

Magnetic backing.

Product Specifications

OWL Data Loggers share many common features. For further specifications on individual models, refer to the catagorized data sheets starting on page 14.

General:

Size:	60 mm x 48 mm x 19 mm (2.4" x 1.9" x 0.7").
Weight:	Watertight model (OWL 100) – 80 g (2.8 oz.). Non-watertight model – 54 g (1.9 oz.).
Case Materials:	Watertight model (OWL 100 only)–Polyurethane. Non-watertight model – Noryl® Plastic.
Operating Limits:	-40 to 70°C (-40 to 158°F); 0 to 95% RH (non-condensing) on non-watertight models.
Clock Accuracy:	+/- 2 seconds per day.
Battery:	3.6 volt Lithium, 10-years warrantied (under normal use). Factory replaceable.
Memory Size:	32 K (32,767 readings).
Sampling Methods:	First-in, First-out, (First-in, First-out not available with sample rates faster than 8 seconds). Fill-then-stop, Delayed start, Trigger start.
Sampling Rates:	User selectable rates from 5 per second to once every 12 hours.
Resolution:	8 bit (1 part in 256). Can be optimized to the equivalent of 10 bit resolution.
Communication:	Optical Send/Receive from up to 1" between logger and interface cable (with no obstructions).

Alarm Type:	Optical (Red LED).
External Connector:	Removable snap type connector.
PC Requirements:	IBM PC or 100% compatible running MS Windows 3.1, '95, '98, or NT, with a least 2 MB RAM, 2 MB of hard drive disk space and one free serial port.
Product Approvals:	Meets Part 15 for Digital Devices of the Code of Federal Regulations of the Federal Communications Commission (FCC). Meets Class A radiated and conducted emission requirements of Section 2 of the Radio Interference Regulations of Communications Canada. IEC801-2, 3, 4 and EN55011 covering ESD, RFI Immunity, EFT/Burst and Radiated Emissions respectively for the Commission of the European Communities (CE).
Resistance to X-Rays:	Tested for protection against a 160V dose @ 5mA for 30 seconds (150mA-sec) @ 38 inches F.F.D. (about 100 times of an airport X-Ray machine). Tested for protection against Gamma Ray (equivalent to 0.137-1.38 mega volts) IR 192 - 28 curies @ 30 second exposure source to object distance 5".