

# iRIS 150 GPRS Datalogger

Cellular dataloggers with GPRS modems for remote data acquisition.



- Store more than 1,000,000 time/date stamped recordings
- RS-232 Interface and GPRS data mode for remote data collection
- 2 Alarms per Data Recording Channel
- Optional GPRS modem for remote telemetry

## Specifications

**Memory:** Non-volatile 8MB flash storage of 1,048,576 time/date stamped data points. Circular buffer mode (oldest data is overwritten when the buffer is full).

**Clock/Calendar:** Non-volatile with the integral lithium battery. Clock is fully Y2K compliant with leap year recognition. Accurate to  $\pm 20$  secs month.

**Resolution:** 12-Bit

**Channels:** 2-Analog (0-5V), 2-Digital Inputs (30Vdc Max In), 1-Digital Outputs (Open drain pull down, max 300mA @ 30V)

**SDI-12 Interface:** SDI-12 hardware interface that fully complies with the SDI-12 electrical standard.

**Communication:** 1x RS232 DB9, DTE configuration. Fixed speed - 38400 bps. Or 1200bps / 9600bps when active in telemetered mode. 1x USB slave via mini USB connector. NOTE: The USB connector is unavailable unless the front label is opened which will negate the IP65 rating. Contact us for details on the USB connection.

**Power Supply:** Primary supply - external 6-15V dc power supplies can be connected. Internal 3.6V 2400mA/Hr lithium battery which is normally used as a backup. The internal backup battery is disconnected when the external supply present or USB is connected. Nominal external supply current is 0.5mA with LCD backlight off.

**Operating Temperature:** 14 to 158°F (-10 to 70°C)

**Storage Temperature:** -4 to 185°F (-20 to 85°C)

**Enclosure:** Powder coated die-cast aluminum.

**Size:** 4.5x3.1x1.3in (115x79x32mm) (LxWxH) (Including RS232 connector and glands)

**Weight:** 9.9oz (281g) including lithium battery

## Description

The iRIS 150 GPRS Dataloggers have been designed as a cost effective, low power, self contained dataloggers for use in a wide range of data gathering and logging applications. The dataloggers are supplied in a powder-coated die-cast aluminum enclosure. Power supply and I/O connections are provided by a small screw terminal block within the datalogger. Cable access is via two NG12 glands on the bottom edge of the enclosure. A small text/graphics LCD provides the user display and user input is via a four key keypad in the same style as other iRIS dataloggers.

### Cellular Modem

The iRIS 150 requires the iCE3 GPRS cellular modem to provide remote telemetry data acquisition. The modem has been designed as a cost effective, low power, self-contained circuit extender to enable communication with equipment over a wireless (GPRS) network connection. The modem includes software which provides the GPRS network link management, data transfer and configuration view/edit functionality. The iCE3 comes standard with a DC power lead and a host device (RS232) cable. The SMA antenna connector allows the use of a small stubby antenna (optional accessory) or alternatively, a coaxial cable to a higher gain external antenna for use in areas where signal strength is lower.

## Price List

**iRIS150** GPRS datalogger

**FP0500** GPRS Datalogger Enclosure Kit W/ AC Charger  
Includes heavy-duty rugged, lockable enclosure, AC charger, smart charger, 12V 4.5Ah battery.

**FP0550** GPRS Datalogger Enclosure Kit W/ Solar Panel  
Includes heavy-duty rugged, lockable enclosure, 5w 300mA Min. solar panel, smart charger, 12V 4.5Ah battery.

**FP0020** iCE3 GPRS Modem

**FP0635** GPRS Modem Antenna Kit

NOTE: For GPRS modem wireless Internet telemetry only.

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