

# iRIS 350 Wireless Datalogger

Wireless dataloggers Internet telemetry for remote data acquisition.



- GSM/GPRS or CDMA-1X or HSDPA internal modem
- Store over 1 million time/date stamped recordings
- RS-232 interface, SMS text mode, CSD dial-up, IP packet transfer
- SDI-12 interface

## Description

The iRIS 350 has been designed as a cost effective, low power, rugged data gathering instrument for a wide variety of logging applications. The iRIS 350 achieves network connectivity through the use of an integral wireless modem. The unit supports SDI-12, analog, and digital inputs as well as flexible output options. The iRIS 350 is supplied in an environmentally sealed (IP65) enclosure constructed from a special corrosion resistant aluminum alloy that is finished in a hard-anodized coating. This provides a very high degree of mechanical strength and EMI shielding, and enables completely stand-alone mounting in outdoor situations.

### Cellular Modem

The iRIS 350 includes a high performance GSM/GPRS, CDMA-1X, or HSDPA (Next G) modem depending on the target market. This enables high-speed data transfer virtually on demand. Extensive software options have been included to make the connection scenarios very flexible and to minimize data traffic. Logged data can be retrieved from the unit in a variety of ways including SMS text, CSD dial-up and GPRS/CDMA data. Data unloads can be scheduled, triggered by alarm conditions or input criteria, and solicited by a remote device.

### Configuration

The iRIS 350 configuration and set-up parameters are modified via a standard ASCII terminal connection either locally or remotely via the cellular modem using the RS232 serial interface. This means that the user can configure the device without needing specialized configuration software installed on their computer specifically for this purpose.

## Specifications

*Resolution:* 16-Bit

*Processor:* 100MHz microcontroller, 16MB flash memory (program and data storage)

*Memory:* 8MB flash storage of 1,084,576 time/date stamped data points. Circular buffer mode (overwrites oldest data when memory is full).

*Channels:* 4-Analog In (0-5V, 4-20mA), 1-Analog Out (0-5V or 4-20mA), 4-Digital I/O (12Vdc 300mA Max), SDI-12

*Clock:* Real time clock and calendar w/battery backup.

*Enclosure:* Die-cast aluminum w/hard grey paint. Neoprene gasket seal gives an IP65 rating.

*Power Supply:* Internal and/or external 12V dc rechargeable sealed lead-acid battery. Charger Source - External 15-30V dc supply. Supports a directly connected solar panel (no regulator).

*Current Draw:* Less than 3mA@12V in standby mode. Actual current draw depends on power management mode and wireless modem state.

*Temperature:*

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

*Storage:* 14 to 185°F (-10 to 85°C)

*Size:* 6.29x5.11x2.75 inch (160x130x70mm) (WxHxD)

*Weight:* 2.86 lbs (1.3 kg)

## Price List

**iRIS350** Wireless datalogger

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

**FP0600** Wireless Datalogger Antenna Kit  
NOTE: For GPRS modem wireless Internet telemetry only.

In the U.S. call toll free  
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