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iRIS 220 Wireless Datalogger



- GSM/GPRS or CDMA internal modem
- Store up to 500,000 time/date stamped recordings
- RS-232 Interface, GPRS data mode, SMS text mode, DSD dial-up Mode
- 2 Alarms per Channel

Description

The iRIS 220 Wireless Datalogger is a fully-featured datalogger with an onboard GPRS or CDMA modem, providing a complete wireless datalogging and remote monitoring solution in a single package. The wireless datalogger software can be customized to suit a variety of specific applications and it can be connected to a wide range of instrumentation. In addition to the wireless datalogger's cellular modem, the iRIS 220 wireless datalogger has an external RS232 port which allows it to be directly connected to a laptop, PC, intelligent instruments and data radios.

Cellular Modem

The iRIS 220 wireless datalogger includes either a high performance GSM/GPRS or CDMA modem. 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 wireless datalogger 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 (e.g. computer running iLink or HydroTelTM 2000).

Configuration

The iRIS 220 wireless datalogger is configured using standard terminal software such as HyperTerminalTM. No special software is required as all menus and configuration settings are generated and displayed directly by the datalogger itself. Configuration can be carried out locally via the RS232 connection or remotely using the cellular modem in exactly the same manner.

Specifications

Resolution: 12-Bit

Processor: 100MHz microcontroller, 4MB flash memory (program and data storage)

Memory: Non-volatile 2MB flash storage of 262,144 time/date stamped data points. Circular buffer mode (overwrites oldest data when memory is full), lithium battery backup.

Channels: 4-Analog (0-5V), 2-Digital Inputs (30Vdc Max In), 2-Digital Outputs (Open drain pull down, max 300mA @ 30V)

Clock: Real time clock and calendar.

Enclosure: Lightweight powder coated aluminum. This provides mechanical strength and EMF shielding and incorporates 4 x M4 mounting holes.

Power Supply: External regulated 12V dc power supply or 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 185°F (-10 to 70°C)

Storage: -4 to 185°F (-20 to 85°C)

Size: 4"x6-3/4"x1-1/2" (WxHxD)

Weight: 1 lbs

Price List

iRIS 220

Wireless datalogger.....\$889

FP0550

Raingauge Datalogger Enclosure Kit W/ Solar Panel....\$595
Includes heavy-duty rugged, lockable enclosure, 5w 300mA Min. solar panel, smart charger, 12V 4.5Ah battery.

FP0600

Wireless Datalogger Antenna Kit.....\$125
NOTE: For GPRS modem wireless Internet telemetry only.



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