

- **8 analog & 4 digital sensor inputs**
- **Rugged NEMA 4X fiberglass enclosure**
- **Cabled & wireless telemetry options**
- **Internal battery with AC & solar options**
- **Built-in drivers for environmental sensors**

The NexSens **iSIC** (Intelligent Sensor Interface & Control) is the latest in data logging technology. Specifically designed for remote environmental monitoring applications, the **iSIC** offers superior data acquisition performance in extreme conditions. NexSens customers expect reliability, and the **iSIC** data logger delivers unmatched sensor interface and data collection with options for landline phone, cellular, radio, Ethernet, WI-FI, and satellite telemetry. Each **iSIC** data logger simultaneously supports 8 analog inputs & 4 digital inputs for multi-sensor data logging capability.

NexSens **iChart** Software is a Windows-based program for interfacing both locally (direct-connect) and remotely (through telemetry) to an **iSIC** data logger or network of data loggers. The **iChart** Setup Device Wizard includes built-in drivers and a step-by-step interface for setting up and configuring remote monitoring sensors and systems. When connected, the user can quickly configure sample & log intervals, upload data, or troubleshoot communications.

The **iSIC** data logger arrives ready for long-term deployment. All electronics are housed in a rugged, NEMA 4X enclosure constructed of heavy-duty fiberglass. The built-in 8.5 amp-hour sealed lead acid battery provides 12 volt power to the system, and the battery can be continuously charged using AC or solar power. Polymer-coated circuit boards, sealed connectors, corrosion-resistant stainless steel hardware, and built-in lightning protection ensure reliable performance in the harshest conditions. All sensors are cabled through Sealcon gland fittings to ensure protection from the elements.

specifications

Analog Inputs	(4) differential or (8) single-ended, additional (4) differential or (8) single-ended optional, 0-2.5 V auto range, 12-bit resolution
Analog Outputs	(2) 12-bit channels, 0-5 V or 0-2.5 V programmable
Power Outputs	(1) 12 V 100 mA configurable switch, (1) 5 V 50 mA analog excitation voltage, (1) 12 V output, fused from battery
Pulse Counters	(1) tipping bucket counter, max rate: 12 Hz
Digital I/O Ports	(2) standard generic I/O ports
SDI-12 Interface	(1) SDI-12 port (10 sensors), v1.3, can be configured as master or slave
RS-232 Interface	(4) RS-232 ports, (2) additional optional
RS-485 Interface	(1) RS-485 port, can be configured as master or slave
NMEA 0183 Interface	(4) RS-232 ports, (2) additional optional
Modbus RTU Interface	RS-232 or RS-485, can be configured as master or slave
Internal Memory	2 MB Flash memory, over 500,000 data points minimum
Power Requirements	Voltage: 10.7 to 16 VDC
Typical Current Draw	5 mA sleep, 10 mA processing, 36 mA analog measurement
Battery	12 V 8.5 A-Hr battery, internal
Temperature Range	-20 to +60°C
Dimensions	NEMA 4X enclosure: 12" x 8.5" x 6.95"
Compatible Sensors	4-20 mA sensors, Voltage sensors, SDI-12 sensors, RS-232 sensors, RS-485 sensors, Modbus RTU sensors, NMEA 0183 sensors, Thermistor sensors, Tipping bucket rain gauges, & sensorBUS sensors
Contents	<ul style="list-style-type: none"> (1) iSIC data logger (1) NEMA 4x enclosure (1) MS2 connector for battery charging (1) MS8 connector for sensor connection (1) Grounding lug (2) Gland fittings (1) 8.5 Ahr battery (5) Desiccant packs (1) RS-232 direct-connect cable (4) 56 Ohm resistors for 4-20mA sensor connection



parts list

Part #	Description
iSIC	iSIC data logger
2100-iSIC	iSIC data logger with phone modem telemetry
3100-iSIC	iSIC data logger with cellular modem telemetry
3200-iSIC	iSIC data logger with radio-to-cellular telemetry
4100-iSIC	iSIC data logger with spread spectrum radio telemetry
4200-iSIC	iSIC data logger with radio-to-phone telemetry
5100-iSIC	iSIC data logger with Ethernet connectivity
5200-iSIC	iSIC data logger with radio-to-Ethernet telemetry
5500-iSIC	iSIC data logger with WI-FI connectivity
6100-iSIC	iSIC data logger with Iridium satellite telemetry
1001	iChart Software for Windows-based computers



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