

iSIC V2

ENVIRONMENTAL DATA LOGGER

Digital and analog sensor inputs

Compatible with external wireless modems

Supports a variety of environmental sensors

Optional web datacenter

Marine anodized aluminum housing

Specifically designed for remote environmental monitoring applications, the **iSIC V2** offers superior data acquisition performance in extreme conditions. Building off the reputation of the original **iSIC** data logger, the **iSIC V2** is a drop-in replacement for existing **iSIC** data logger networks, or it can be a powerful standalone system using external wireless modems. Each data logger simultaneously supports 8 analog inputs & several digital inputs for multi-sensor data logging capability.

The **iSIC V2** data logger arrives ready for long-term deployment. All electronics are housed in a rugged enclosure constructed of anodized aluminum, and an optional **AVSS** stainless steel enclosure kit offers a secondary level of protection with integrated battery, solar regulator, external antenna, and six sensor ports. All sensors are cabled through Sealcon gland fittings to ensure protection from the elements.

The **iSIC V2** includes built-in serial and Ethernet ports for hard-wired communications. **iChart** Software is a Windows-based program for interfacing both locally (direct-connect) and remotely (through telemetry) to an **iSIC V2** data logger or network of data loggers. Optional **WQData Live** web datacenter offers instant access to data on any web browser. Data is presented on a fully-featured and easy-to-use dashboard. Features include automated reports, alarms, push notifications and much more.

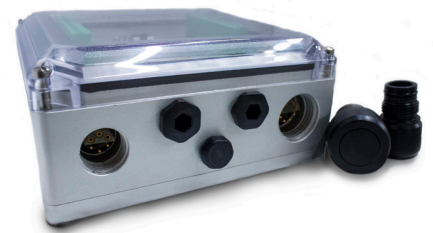
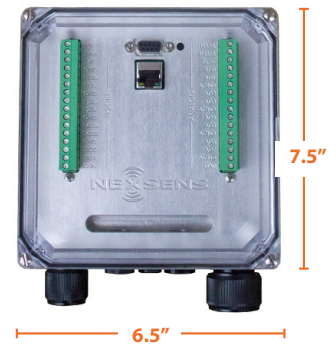


iSIC V2

Environmental Data Logger

specifications

Ports	(1) UW8 for sensor connection (1) UW6 for RS-485 host connection and external power (2) PG-11 passthrough port for custom wiring (2) 16 position pluggable terminal blocks for sensor, host, and power wiring (1) DB9 RS-232 host connection (1) RJ45 100BASE-T Ethernet (8) 16-bit single-ended or (4) differential; $\pm 1.25V$ or 0-2.5V selectable
Analog Outputs	(1) 12-bit DAC; 0-2.5V
Digital I/O Ports	(1) Tipping bucket input, max rate: 10 Hz (2) Standard generic I/O ports 0-3.3V
Host Interface	(1) RS-485 (half duplex); (1) RS-232 (3-wire full duplex)
Host Protocols	iSIC Protocol; Terminal command interface; Modbus RTU (future)
Sensor Interface	(1) RS-485 (half duplex); (1) SDI-12; (3) RS-232
Sensor Power	(1) Switched 12VDC 1.2A; (1) 1.5A Pass through full time power; (1) 5VDC 200mA
Sensor Protocols	Modbus RTU; NMEA 0183; SDI-12; GSI (via custom script)
Log Interval	1 minute to 24 hours; supports different intervals for different sensors concurrently
Real Time Clock (RTC)	<30sec/month drift; Internal backup battery
Built-In Sensors	Temperature (-40 to 85°C, 0.1°C resolution, $\pm 0.3^\circ C$ accuracy from -20 to 85°C); Humidity (0-100%, 0.1% resolution, $\pm 4\%$ accuracy from 5 to 95% RH & -20 to 70°C); Battery voltage; Current draw
Internal Memory	256MB microSD card (expandable up to 32GB)
External Power	5-16 VDC $\pm 5\%$ (Overcurrent and Reverse polarity protection)
Typical Current Draw (@12V)	Sleep: 760uA; Active: 43mA; Analog Active: 85mA
Operating Temperature	-30 to +85°C
Physical	Dimensions: 7.5" L x 6.5" W x 2.9 H"; Weight: 4.2 lbs; Anodized aluminum housing; NEMA 4X (with lid)



parts list

iSIC-V2	iSIC V2 environmental data logger
PM1	iSIC V2 pole and wall mount kit, 1.5" to 2" diameter
SP8	Solar power pack, 8-watt. Includes solar panel, regulator, 6 A-Hr battery & pole mount weather tight enclosure
SP13	Solar power pack, 13-watt. Includes solar panel, regulator, 6 A-Hr battery & pole mount weather tight enclosure
AVSS	Stainless steel enclosure kit for V2 data loggers
AVSS-C	Stainless steel enclosure kit for V2 data loggers with cellular telemetry
UW6-PW	AC power adapter
UW6-USB-485P	Direct connect USB PC cable

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