

3200-iSIC Quick Start Guide

This guide will help you get started. Detailed instructions and reference information are available on the iChart CD.

Overview...

The NexSens 3200-iSIC (Intelligent Sensor Interface and Control) data logger is designed for environmental monitoring applications. It arrives ready for deployment. All electronics are housed in a rugged, NEMA 4X enclosure with a long-life, rechargeable battery. Polymer-coated circuit boards, sealed connectors, corrosion-resistant stainless steel hardware, and built-in lightning protection ensure reliable performance in the harshest conditions. A cellular modem and spread spectrum radio antenna is housed inside of the enclosure. The modem can be ordered for Verizon (CDMA), Sprint/Nextel (iDEN), Cingular/AT&T (EDGE/GPRS) service providers (technologies).



Getting Started with a 3200-iSIC Data Logger...

The 3200-iSIC is an easy to use data logger with intuitive software. Follow these steps to prepare a 3200-iSIC for field installation:

- Step 1.** Unpack the 3200-iSIC data logger. It ships in custom foam packaging to ensure it will not get damaged during shipping. Open the enclosure and remove the SA1020 iSIC Kit from the enclosure.
- Step 2.** Power the iSIC by connecting power to the MS2 port of the 3200-iSIC.
- Step 3.** Provision the modem as described in iSIC manual section *Programming the 3100-iSIC*. 3100-iSIC Setup software can be downloaded from the Support section of www.NexSens.com.
- Step 4.** If a cellular account is not yet setup, you can remove the 3200-iSIC cable from the iSIC DB9 connector, and use the supplied A72 iSIC interface cable to directly connect to the iSIC as if it were direct connect telemetry.
- Step 5.** Power any 4100-iSIC the 3200-iSIC will be used to communicate to and wire sensors to the data logger and add them in iChart following the *Configuring an iSIC Data Logger* section.

Installing an iSIC Data Logger ...

When ready to install the system in the field, simply:

- Step 1.** Mount the iSIC to a wall, pole, or any secure location above flood stage using an A55 mounting plate, or the potted nuts located on the back of the enclosure. Make sure the data logger is in a location that receives adequate cellular coverage. See iSIC manual section *Checking cellular modem signal strength*.

- Step 2.** Ground the iSIC using an A38 Grounding Kit or other grounding wire connected to the grounding lug located outside the iSIC enclosure. See iSIC manual section *Sensor Wiring* for more information.
- Step 3.** Attach and mount a cellular cable and antenna to the N-Style connector located in the center of the NEMA enclosure.
- Step 4.** Attach a radio telemetry antenna to the 6ft RF cable coming out of the metallic sealcon fitting.
- Step 5.** Wire sensors to the data logger's green terminal strips located inside of the enclosure. Bring any cables into the enclosure by removing a port plug and installing a gland fitting from the SA1020 iSIC Kit.
- Step 6.** Power the 3200-iSIC from the MS2 connector on the outside of the unit. The 3200-iSIC contains both a cellular and radio telemetry modem, and as such draws a significant amount of power.

See iSIC manual section *Field Deployment* for more information.

Configuring a 3200-iSIC Data Logger...

Configuring a data logger is easy with iChart software. Simply:

- Step 1.** Wire sensors to and power the iSIC.
- Step 2.** If adding to an existing iChart project, select *Project | Setup Device Wizard* otherwise select *File | New Project*.
- Step 3.** Follow the wizard to add a site name. For adding sensors connected to a 4100-iSIC, select 4100-iSIC from the drop down list of data loggers and select 3200-iSIC as the "Connect Through" device. For adding sensors to the 3200-iSIC, select 3200-iSIC as the data logger. The address will be "250" when communicating to a 3200-iSIC.
- Step 4.** Add any sensors connected to the data logger by selecting the sensor manufacturer and then model number. If the sensor is not in the predefined list, you can add it generically by selecting "Generic" as the sensor manufacturer.

See iSIC manual section *iChart Setup and Operation* for more information on adding and configuring specific sensors.

For More Information ...

For more information see the iSIC manual which is available on your iChart software CD. The latest version of the manual can also be downloaded from the Support section of www.NexSens.com.



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