

iSite Remote monitoring systems: real-time Web access for your critical data needs

iSite is designed for monitoring applications where the user needs Web-accessible data from remote instrumentation reliably, easily and cost-effectively. A "plug-and-work" system compatible with virtually any sensor with DC excitation, including **digital, analog, strain gage or vibrating-wire** – *iSite* is flexible and easy to install.

The *iSite* system consists of stand-alone loggers that take and store sensor data on demand or at programmed intervals. Loggers are networked wirelessly through our proprietary Remote Area Network (RAN). Any sensor can be reached from any location within the network. The RAN can be accessed via an RS232 serial port, or through a landline, cell-phone or satellite connection, providing a seamless gateway to *iSiteCentral*.

Authorized users can log-on to *iSiteCentral* anywhere, anytime to access their critical data using a standard Web browser. Our automated data-reduction system turns raw data into knowledge you can use, with output in graph, table, or spreadsheet form. The *iSite* alarm option provides immediate notification of potential issues by mobile phone, e-mail, or pager. All data are safely stored and backed up on redundant and robust *iSiteCentral* servers.

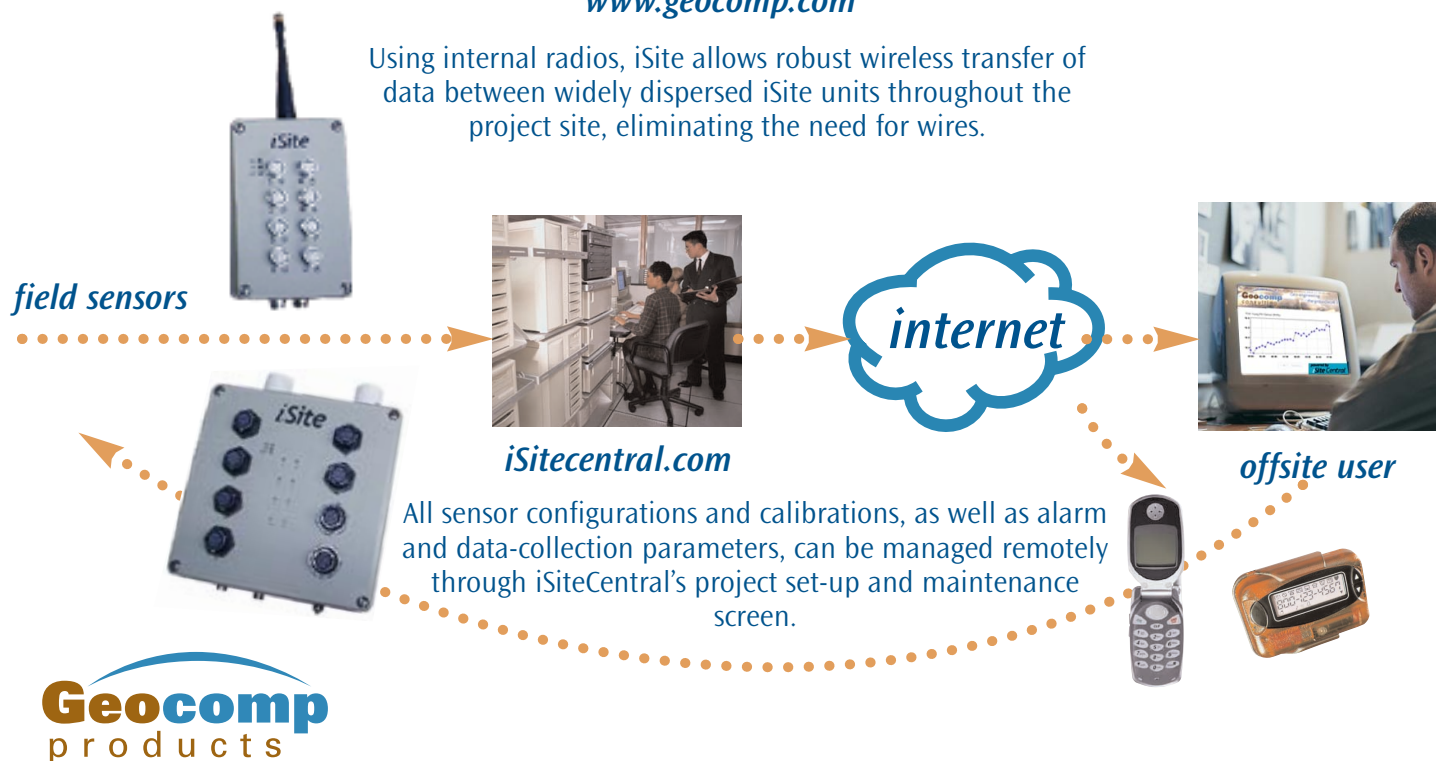
iSite removes the need for wires connecting sensors to a central data-logging unit. This greatly lowers the materials and installation costs for most field-monitoring applications. *iSiteCentral*'s real-time Web access also eliminates the need to send employees to remote sites for data collection or to change instrument-reporting parameters.

OEM Customers

iSite and *iSiteCentral* can be private-labeled for manufacturers of a wide range of structural and environmental sensors. This enables you to offer your customers the latest in logger technology and real-time Web access to critical data captured by your sensors, without requiring you to invest in new technology or data-storage centers.

www.geocomp.com

Using internal radios, *iSite* allows robust wireless transfer of data between widely dispersed *iSite* units throughout the project site, eliminating the need for wires.



Geocomp
products

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iSite specifications at a glance. Contact Geocomp or visit our Web site for complete product specifications.

INPUTS

NUMBER OF CHANNELS: Up to 96 differential, individually configured.

ANALOG INPUTS

SAMPLE AND STORE: 1 per 5 seconds

SAMPLING FREQUENCY: user programmable from 3.75 to 15 Hz

INPUT GAIN: user programmable for values of 1, 2, 4, 8, 16, 32 and 64

SENSOR EXCITATION: 5-10 Vdc programmable for each channel; 100 mA maximum

FREQUENCY INPUTS

SAMPLE RATE: 16 kHz

MAXIMUM FREQUENCY: 8 kHz

MINIMUM FREQUENCY: 400 Hz

CPU AND INTERFACE

PROCESSOR: WINBOND W77LE58

PROGRAM STORAGE: 32 Kbytes

DATA STORAGE: 512 Kbytes FLASH with zero power backup aa and circular

FIFO storage (4 Mbytes optional)

ALARMS: User programmable high and low on each input channel

PERIPHERAL INTERFACE: RS232 using 38,000-baud ASCII protocol with one start bit, one stop bit, eight data bits, no parity.

OPERATING TEMP: -25° to +80°C

MAIN INTERNAL BATTERY: 3.6 Vdc 7000 mAh NiMH rechargeable

TYPICAL CURRENT DRAIN: 50 mA continuous

EXTERNAL CHARGING POWER SOURCE: 7.5 to 20 Vdc

OPTIONAL CHARGERS: AC/DC adaptor, 12 volt battery, or solar panel

SENSOR CONNECTORS

Hirose SR30 miniature, MIL-C-26482 12-10 S circular bayonet lock connector or Phoenix contact connector

ENCLOSURE SIZE:

7.8 x 7.8 x 4.7 inches

195 x 195 x 120 mm

7.1 lbs (3.2 kgm)

or

4.7 x 3.1 x 2.4 inches

120 x 78 x 60 mm

1.7 lbs (.8 kgm)

LIGHTNING AND SURGE PROTECTION (optional)

1st stage: tripolar plasma surge arrestors

2nd stage: SiDactor™ medium voltage surge arrestors

3rd stage: SiDactor™ low voltage surge arrestors

RADIO TRANSCIEVER (optional)

FREQUENCY: 916 MHz ISM band

916 MHz spread spectrum

2.4 GHz spread spectrum

INTERFERENCE: Collision detection, automatic retry with a error checking

ANTENNA: 3 dB gain tamper proof

REMOTE ACCESS COMMUNICATIONS (optional)

-CDMA cell module

-GSM tri-band world-wide cell module

-Land-line modem module

About Geocomp

Geocomp Products – provides and supports remote-monitoring systems that enable real-time, Web-based access to critical data from structural- and environmental-monitoring instruments at sites worldwide. We also supply automated lab-testing systems to government, industrial, and university labs

Geocomp Consulting – provides comprehensive services to identify, manage, and mitigate underground risk to clients across the United States and around the globe

Geotesting Express – GTX, our sister company, performs a complete range of mechanical- and physical-properties tests on all materials used in underground construction. GTX specializes in lab- and field-testing of soil, rock, geosynthetics, and other geo-materials