



GEOTECH INSTRUMENTS, LLC

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Quick Start Guide

For **OFFLINE** Operation of

SMART-24 Series Data Recorder

1. Connect the SMART-24R® instrument with the supplied power cable to a 12V battery or 12VDC power supply on the POWER connector. If the LCD does not become active press the **ON** touch pad button to switch the SMART-24R® instrument on.
2. Connect the SMART-24R® instrument to the network or directly to a PC using the supplied Ethernet cable on the I/O1 connector. The SMART-24R® is programmed at the factory with the IP address 192.168.0.1.
3. Connect the supplied GPS cable and receiver to the unit at the GPS connector.
4. Install the software from the Geotech CD on the computer, by running the Install program from the CD root folder.
5. Start the **SMART24Config** program, connect to the SMART-24R® by entering its IP address (initially 192.168.0.1), and review/change instrument settings using the program windows. If **more than one unit** will be connected to a network at the same time, a **unique** IP address has to be assigned to each SMART-24R® connected to the network (use the TCP/IP Properties window). By default, the instrument is set up for 3 channels running at 50 samples per second, with internal data recording **disabled**. To make changes go to ADC Properties and Internal Recording windows.
6. Use the **Send** button to send the new parameters to the unit, then **Disconnect** from the unit to start using the new parameters. See SMART24Config User's Manual for more detailed configuration instructions.
7. Any Web browser (e.g. Internet Explorer) or even the LCD screen can be used to inspect the instrument status information. In the former case, navigate to <http://192.168.0.1> (or the new IP address); in the latter case, scroll through different screens using the **USER** touch pad button.
8. SMART-24R® has usually one disk drive for data file recording: drive D (see Internal Recording window). By default, drive D is set as target for both event recording and continuous recording (if enabled). Drive D is located in a removable enclosure with a USB2.0 port that can be connected to a PC or hub USB port. When the removable drive is connected to the PC USB port, it is seen as a local drive and the data files can be copied to the PC hard disk either manually or automatically with **SMARTOffline** program (if provided).
9. SMART-24R® provides FTP access to the data files stored on its disk drive(s). Virtually any FTP client program can be used on a computer to transfer data files *via* a TCP/IP connection from <ftp://192.168.0.1> (or the new IP address). Please note that the FTP task has a low priority and limited bandwidth and is very slow compared to the USB2.0 speed.
10. After transferring the data files to the computer, run the **SMART24Reader** program for a quick view of the data and for simple conversions into SUDS, Mini-SEED, or ASCII formats. Use SMARTOffline program (if provided) for automatic file copying and conversions into various data formats: SUDS, SAC, SEG-Y, SEED, Mini-SEED, SEISAN, MATLAB, CSS3.0 or ASCII.

See reverse side for **ONLINE** Operation



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2. Connect the SMART-24R® instrument to the network or directly to a PC using the supplied Ethernet cable on the I/O1 connector. The SMART-24R® is programmed at the factory with the IP address 192.168.0.1.
3. Connect the supplied GPS cable and receiver to the unit at the GPS connector.
4. Install the software from the Geotech CD on the computer designated as data server, by running the Install program from the CD root folder.
5. Start the **SMART24Config** program, connect to the SMART-24R® by entering its IP address (initially 192.168.0.1), and review/change instrument settings using the program windows. In the TCP/IP Properties window, a **unique** IP address has to be assigned to each SMART-24R® connected to the network. Set the computer IP address as the **CD1.1 Consumer** in the CD1.1 Properties window on Profile 1 for real time data sending. By default, the instrument is set up for 3 channels running at 50 samples per second, with continuous data transmission **enabled**. To make changes go to ADC Properties and CD1.1 Properties windows.
6. Use the **Send** button to send the new parameters to the unit, then **Disconnect** from the unit to start using the new parameters. See SMART24Config User's Manual for more detailed configuration instructions.
7. Any Web browser (e.g. Internet Explorer) or even the LCD screen can be used to inspect the instrument status information. In the former case, navigate to <http://192.168.0.1> (or the new IP address); in the latter case, scroll through different screens using the **USER** touch pad button.
8. Run the **SMARTDBConfig** program to configure the **SMARTGeoHUB®** computer database.
9. The site specific parameters set in the database using SMARTDBConfig **must** match the corresponding parameters previously setup in the SMART-24R® instruments using SMART24Config (such as site and channel names, IP addresses, etc). See SMARTDBConfig User's Manual for more detailed database configuration instructions.
10. Start the **SMARTServer** program to accept incoming real-time data from SMART-24R® instrument(s) *via* the TCP/IP network. See SMARTGeoHub® User's Manual for more information.
11. Start the **SMARTGeoViewer®** program to display data received in real-time. See SMARTGeoViewer® User's Manual for more information.

*See reverse side for **OFFLINE** Operation*