

Product note

SREA-01 Ethernet adapter with remote access helps data collection and maintenance



SREA-01 enables remote drive access and data acquisition

With drives increasingly being installed in remote locations, it is vital that operational and process data is monitored locally in real time and transmitted to a central location for analysis. Often there is no qualified service personnel stationed at these sites, which makes remote monitoring and diagnosis of the drive and application crucial to process availability.

ABB's SREA-01 Ethernet adapter performs all essential remote access tasks. It is designed as an optional remote interface module for ABB industrial drives, standard drives, general machinery drives, DC drives and other ABB products, such as the AC500 PLC. The SREA-01 can send process or drive data and event messages as well as log data to the drive's internal memory, without the need for a PLC or dedicated on-site computer. The module's internal web server ensures smooth access from standard PCs, mobile phones with a web browser, or other telecom devices.

Connect multiple drives to an Ethernet or GPRS network

In addition to a standard Ethernet port, the SREA-01 has a serial port for connection to a standard GSM/GPRS modem for Internet connectivity in isolated places. The modem connection can be used for sending e-mail or SMS messages, uploading data files by FTP, or accessing the module web pages.

A maximum of 10 drives can be connected to a single SREA-01 module over Ethernet or EIA-485 serial communication networks. Simultaneous use of the two connection methods is possible, allowing access to different types of drives. In addition, Modbus TCP commands from a PLC to a drive are supported in the remote monitoring mode.

Collect data logs and integrate drive data in SCADA applications

For collecting data from the drive, process or data analysis, the SREA-01 has a configurable data logger that can store values from the devices to a file, with sample intervals between ten seconds and one hour. The files are stored internally for visualization with a web browser. Data in standard comma separated values (CSV) file format can be imported to applications such as Microsoft Excel for processing.

The collected data logs can be sent by e-mail or FTP, either through a local area network or the Internet. The sending interval can be configured by the user, with logs sent, for example, hourly or weekly. In addition to its data logging functionality, the SREA-01 also has an internal Modbus TCP gateway, providing a standard interface that can be used by supervisory control and data acquisition (SCADA) applications to display drive information in real time.

Receive event messages and alarms, and access the drive remotely

The SREA-01 can be used to monitor the drive and application parameters such as process temperatures, and send alarm messages to maintenance personnel if a set limit is exceeded. Event and alarm messages are sent as SMS messages or by e-mail using the user's own messages. The event conditions and messages can be configured by the user to make them suitable for a number of applications.

At any time, the internal web server of the SREA-01 provides an intuitive user interface for accessing the drives. Travel to sites can often be avoided by using a standard web browser to view and change the drive parameters, monitor the status of all connected devices, and browse the actual faults or history of the installation.



An alarm message sent by the SREA-01 module.

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SREA-01

Logged in as: Administrator
Logout

Select page
Status Alarm Log Configuration Setup About

Drive Actual Values Parameters Faults

Drive Info	
Name	ACS550-01 (Vector) (5)
Model	ACS550-0x (Vector)
Connection type	Modbus RTU Slave address: 5
Status	FAULT
Information	This is the first drive of the test setup. Here you can write notes about the drive.



Faults				
	Date	Time	Type	Description
1	2010-02-13	13:58:56	+FAULT	EXT FLT 1
2	2010-02-13	13:58:32	-FAULT	EXT FLT 1
3	2010-02-13	13:58:09	+FAULT	EXT FLT 1
4	2010-02-13	13:57:45	ONLINE	LOGGER STARTED

Example of web browser user interface of the SREA-01.

For more information please contact:

www.abb.com/drives

www.abb.com/drivespartners

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