MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

ABB

SREA-01

ETHERNET DRIVE MONITORING ADAPTER

Used with the applicable ABB SREA-01 Drive Networking configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: ABB SREA-01 User manual, technical specifications p.109

Overview

The SREA-01 Ethernet Adapter module

SREA-01 is a remote interface device that can connect to 1…10 ABB drives and provide a browser-based service and monitoring interface. The interface provides access to drive parameters, actual values, drive status, faults and data. In addition it has the ability to collect logging data, send alarms and act as a Modbus TCP gateway.

SREA-01 connects to the drive by using serial Modbus connection. The connection can be either point-to-point RS-232, multi-drop RS-485 or Ethernet. SREA-01 can be accessed over Ethernet network or GSM/GPRS/analog modem.

Key features of SREA-01

Data logging

- Sample intervals from 10 seconds to 60 min
- Graphical browser-based log viewer
- Sends logs by E-mail or FTP
- Data is saved in Microsoft Excel compatible CSV files.

Alarms

- Customizable alarm conditions, messages and recipients
- Alarms can be sent by SMS, E-mail or SNMP.

Web browser based remote monitoring

- Shows actual values, parameters, status of the drives and fault logs
- Drive summary that shows the status of all drives
- User can create custom views that show the most important data values
- Fault logs and parameter configurations can be saved to the PC

Modbus TCP gateway

- All drive parameters and actual values can be accessed by Modbus TCP clients.

Compatibility

For SREA-01 Ethernet Adapter compatibility, see the drive template guide.

Delivery check

The option package for the SREA-01 Ethernet Adapter module contains:

- Ethernet Adapter module, type SREA-01
- Ethernet cable for connecting the PC to the SREA-01 for configuration. Straight Ethernet cable can be used permanently for connecting SREA-01 to Ethernet switch or hub.
- A cable with RJ45 connector to connect to the drive panel port
- A 120 ohm terminating resistor for RS-485 networks
- Quick Installation Sheet
- CD-ROM with this manual, ABB IP Configuration Tool and supplemental data.

Appendix A: Technical specifications

Ethernet connection

10Base-T or 100Base-TX (IEEE 802.3)

RJ45 connector

Serial interfaces

RS-232 with full modem control (RTS, CTS, DCD, DTR, DSR, RI)

300-115.200 bps, 9-pole DSUB connector

RS-485, 300-115.200 bps, screw connector

Power supply

9…28 V AC/DC (2 W)

Temperature range

Operating: -40…85 °C

Storage: -40…85 °C

Humidity range

5…95% RH, non-condensing

Cover material

Grey plastic, LEXAN 940, self-extinguishing according to UL94-V0

Mounting option

DIN rail (EN 50022)

CE certification

According to EN 61000-6-4:2001 and EN 61000-6-2:2005

Degree of protection

IP20

Dimension drawings

Dimensions of SREA-01 module in millimeters and inches are shown below.

