



SCS²/SCS³ (CANopen) to SCU with RML

DESCRIPTION

The upgrade from SCS²/SCS³ (CANopen) control system to SCU with RML offers a greater solution to spreader control, monitoring and troubleshooting efficiency.

The Bromma Spreader Control Unit (SCU) is a spreader control system developed to focus on the core functionality needed to control and operate a Bromma spreader.

The SCU is mounted inside the electrical cabinet and consists of two basic elements; a spreader mounted PLC and the spreader control software which controls the spreader functions. The result is a single control system optimized for spreader control.

The Remote Monitoring Log unit (RML) provides essential diagnostic spreader information from the spreader unit connected to it. It is mounted near the electrical cabinet and has a communication reach of approximately 50 meters (depending on surroundings).

Spreader information can be accessed on an encrypted webpage from any WIFI-equipped laptop, tablet or smartphone. This enables service and maintenance personnel to review and analyze data in order to further improve spreader productivity.

Benefits of having an upgrade from SCS²/SCS³ (CANopen) control system to SCU with RML include:

- The SCU communicates with the crane PLC through a parallel I/O interface, and a serial CAN bus interface, supporting DS4444 and BCAN.
- A separate CAN bus interface is utilized to manage the on-board I/Os, i.e. sensors, actuators, etc., which minimizes the need for junction boxes, relays, wiring and terminals.
- The software is built-up by using Bromma proven function blocks and system functions, minimizing configuration needs.
- The applications which control the spreader can be easily adapted according to customer requirements.
- The RML provides crucial diagnostic signals and commands from the crane interface which are monitored and displayed in real time.
- Clear symbols and text displayed enables quick understanding of the type of event and the action needed.
- The permanent diagnostic logfile is able to store up to approximately 1.8 million events, which can be used for further analysis.



DATE	TIME	EVENT	STATUS	DETAILS
2016-08-04	11:57:20	Failure	1:0000	Radio Missing
2016-08-04	11:57:20	Warning	1:0001	Radio Missing
2016-08-04	11:57:20	Warning	1:0002	Bus Warning on CAN/CAN2
2016-08-04	11:57:20	Warning	1:0003	Bus Warning on CAN/CAN2
2016-08-04	11:57:20	Warning	1:0004	Radio Missing
2016-08-04	11:57:20	Warning	1:0005	Radio Missing
2016-08-04	11:57:20	Warning	1:0006	No contact with crane software
2016-08-04	11:57:20	Warning	1:0007	Radio Missing
2016-08-04	11:57:20	Warning	1:0008	Radio Missing
2016-08-04	11:57:20	Warning	1:0009	Radio Missing
2016-08-04	11:57:20	Warning	1:0010	Radio Missing
2016-08-04	11:57:20	Warning	1:0011	Radio Missing
2016-08-04	11:57:20	Warning	1:0012	Bus Warning on CAN/CAN2
2016-08-04	11:57:20	Warning	1:0013	Bus Warning on CAN/CAN2
2016-08-04	11:57:20	Warning	1:0014	Radio Missing
2016-08-04	11:57:20	Warning	1:0015	Radio Missing
2016-08-04	11:57:20	Warning	1:0016	Radio Missing
2016-08-04	11:57:20	Warning	1:0017	Radio Missing
2016-08-04	11:57:20	Warning	1:0018	Radio Missing
2016-08-04	11:57:20	Warning	1:0019	Radio Missing
2016-08-04	11:57:20	Warning	1:0020	Radio Missing
2016-08-04	11:57:20	Warning	1:0021	Radio Missing
2016-08-04	11:57:20	Warning	1:0022	Radio Missing
2016-08-04	11:57:20	Warning	1:0023	Radio Missing
2016-08-04	11:57:20	Warning	1:0024	Radio Missing
2016-08-04	11:57:20	Warning	1:0025	Radio Missing
2016-08-04	11:57:20	Warning	1:0026	Radio Missing
2016-08-04	11:57:20	Warning	1:0027	Radio Missing
2016-08-04	11:57:20	Warning	1:0028	Radio Missing
2016-08-04	11:57:20	Warning	1:0029	Radio Missing
2016-08-04	11:57:20	Warning	1:0030	Radio Missing
2016-08-04	11:57:20	Warning	1:0031	Radio Missing
2016-08-04	11:57:20	Warning	1:0032	Radio Missing
2016-08-04	11:57:20	Warning	1:0033	Radio Missing
2016-08-04	11:57:20	Warning	1:0034	Radio Missing
2016-08-04	11:57:20	Warning	1:0035	Radio Missing
2016-08-04	11:57:20	Warning	1:0036	Radio Missing
2016-08-04	11:57:20	Warning	1:0037	Radio Missing
2016-08-04	11:57:20	Warning	1:0038	Radio Missing
2016-08-04	11:57:20	Warning	1:0039	Radio Missing
2016-08-04	11:57:20	Warning	1:0040	Radio Missing
2016-08-04	11:57:20	Warning	1:0041	Radio Missing
2016-08-04	11:57:20	Warning	1:0042	Radio Missing
2016-08-04	11:57:20	Warning	1:0043	Radio Missing
2016-08-04	11:57:20	Warning	1:0044	Radio Missing
2016-08-04	11:57:20	Warning	1:0045	Radio Missing
2016-08-04	11:57:20	Warning	1:0046	Radio Missing
2016-08-04	11:57:20	Warning	1:0047	Radio Missing
2016-08-04	11:57:20	Warning	1:0048	Radio Missing
2016-08-04	11:57:20	Warning	1:0049	Radio Missing
2016-08-04	11:57:20	Warning	1:0050	Radio Missing

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SPREADER CONTROL SYSTEM

SCOPE OF WORK

The scope of work in the supply and installation of the upgrade from SCS²/SCS³ (CANopen) control system to SCU with RML is as listed below:

- Rewrite program in CoDeSys V2.3
- Remove existing parts which need to be replaced
- Mount and connect all listed parts
- Install SCU PLC
- Install RML
- Install new SCU and RML software
- Install new cabling
- Revise existing drawings
- Revise spreader manuals
- Test all functions

PARTS INCLUDED

The following parts are included in the SCS²/SCS³ (CANopen) control system to SCU with RML upgrade offer:

- SCU PLC
- SCU control cable
- RML
- Converted and updated spreader program
- I/O modules
- CANopen cables
- CR9056 planks
- Plugs
- Cables and item markings

ADDITIONAL ITEMS INCLUDED IN WORK SCOPE

The following additional items are included in the SCS²/SCS³ (CANopen) control system to SCU with RML upgrade:

- Software update on port's computer that will be used to connect to the spreader
- Firmware update of components and spreader control system
- SCU and RML training

MATERIAL & INSTALLATION LEADTIME

Please contact your local Bromma representative for material and installation leadtime.

PRICE & DELIVERY

Please connect with your local Bromma representative for price and delivery leadtime.