C-Bus®

5500NAC
C-Bus® Network Automation Controller

Technical Data Sheet

The C-Bus Network Automation Controller manages and controls C-Bus lighting and room control systems for buildings and integrates BMS front-end equipment and software for functions such as heating/cooling, energy/load monitoring and remote control.

From simple to advanced installations the C-Bus Network Automation Controller for C-Bus can provide control and automation of lighting, blinds, shutters and room occupancy.

The integrated visualisation (user-created dashboards), allows local or remote control and monitoring via PC, touch screen panel, tablet or smart phone. This can include functions such as;

- C-Bus control
- Scenes
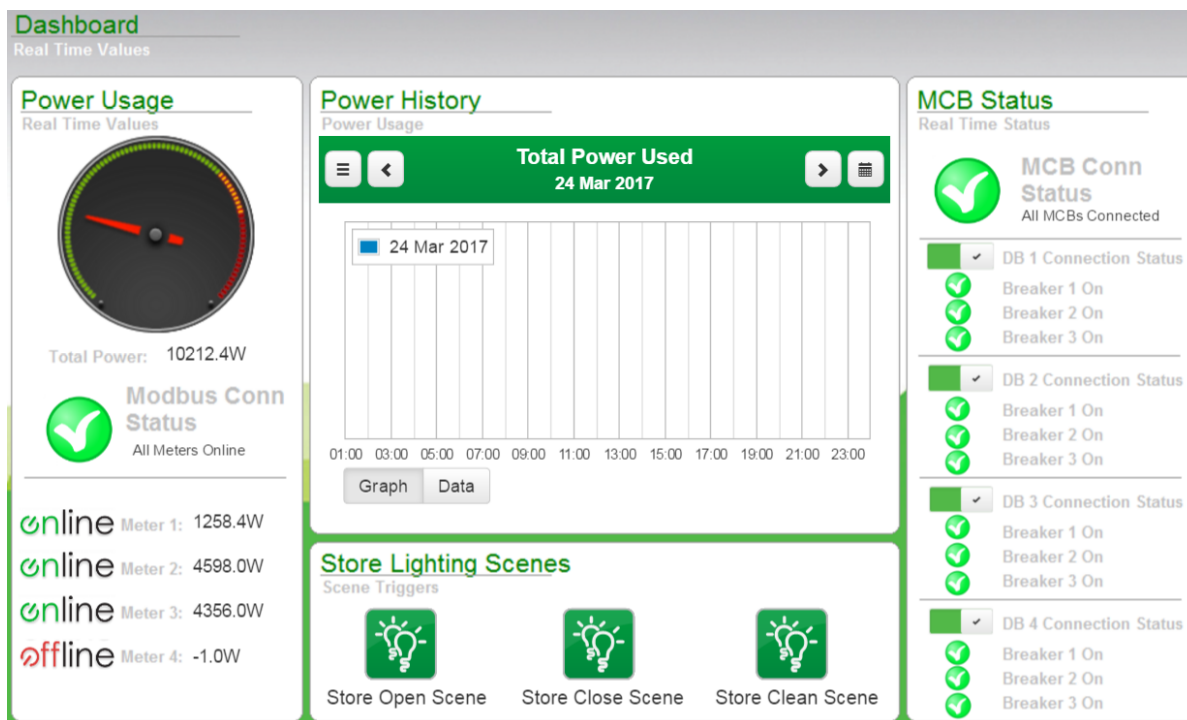- Scheduling
- Energy Monitoring & Trend-logging

Integration & Control

- Lua scripts can be programmed to achieve complex control functions (LOGIC).
- Integration of TCP/IP cameras, Web Services and additional BMS functions via Ethernet media (using BACnet IP and Modbus RTU or TCP).
- Integration of AV and other I/O equipment via RS-232 serial, Modbus RTU or TCP.
- Supports up to 2000 Objects (C-Bus and internal) - 500 BACnet data points *(dependent on CPU load).*

Features

- Front cover USB connection for direct connection to product (fixed IP address 192.168.254.10).
- Ethernet connection by RJ45 on the unit allows for to local and remote C-Bus connection (CNI, re-addressable IP address).
- Connection to C-Bus as a local interface for commissioning is supported via both USB and Ethernet, while the controller remains connected for monitoring, control and operation of schedules and other services for C-Bus.
- Allows integration of 3rd party Modbus devices (Installer can create their own Modbus device profiles based upon manufacturers' information).
- On-board Web Server provides control via PC, touch screen panel, tablet or smart phone - using installer created user interface.
- BACnet BTL certified.

33 – 37 Port Wakefield Road, Gepps Cross, South Australia, 5094
www.schneider-electric.com

38 Business Parade South
East Tamaki, 2013
Auckland, New Zealand

Life Is On | **CLIPSAL** by Schneider Electric

Example of a user created dashboard allowing monitoring and control of combined services for a building. Graphic shows values for energy meters, trending and MCB trip status via other input devices (Modbus), lighting status & control (C-Bus).

5500NAC, C-Bus Network Automation Controller

Technical Data	
External Power Supply	24Vdc, 10W Max, 2W typical (plug-pack or similar purchased separately)
C-Bus Power Consumption	15-36Vdc, 32mA
Buttons	Software & Hardware Reset
Front Panel LED Indicators	8 Status LED's; Power, Status, Relay Output, Digital Input, RS-232, RS-485, Ethernet, C-Bus
Dimensions	6 DIN modules wide, 108mm (L) x 63mm (D) x 93mm (H)
Physical Connections	USB Type A, USB Type B, RJ45 Ethernet x 1, C-Bus RJ45 x 2, LED Output Driver, RS-232, RS-485, Digital Input (Dry Contact or Impedance measuring 2.2KOhm Closed, 6.9KOhm Open) Changeover Relay Output (1A max @ 24Vdc /48Vac)
Supports:	
Objects	*2000 (C-Bus and internal)
User Accounts	*50 (User Profiles)
Modbus Devices	*31
BACnet Data points	*500
Supported Protocols	C-Bus, Modbus (RTU, TCP), RS-485, RS-232 (Serial), BACnet IP (BTL certified), TCP/IP
BACnet Certifications	
B-ASC	BACnet Application Specific Controller
BIBBs Supported	DS-RP-B, DS-RPM-B, DS-WP-B, DS-COV-B
Object Type Support	Analog Value, Binary Value, Device
Data Link Layer	BACnet IP
Device & Network Management	DM-DDB-B, DM-DOB-B, DM-DCC-B, DM-TS-B, DM-UTC-B, DM-RD-B
Character Set Support	ISO 10646 (UTF-8)
Environment	
Operational Conditions	Temperature: -5 °C to +45 °C, Relative Humidity: 10 % to 93 %
Standards	AS/NZS CISPR22
Directives	2002/96/EC - WEEE directive, 2011/65/EU - RoHS directive, 1907/2006/EC - REACH directive

Limits dependent upon not exceeding recommended CPU Load

8 June 2017