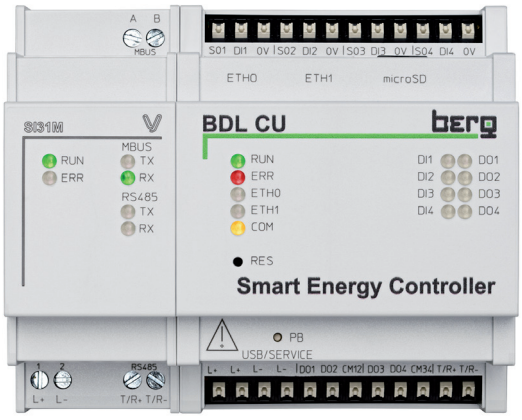
BDL CU

Smart Energy Controller



- Ethernet gateway with NTP logger function
- Master module with Modbus RTU interface and S0 pulse inputs
- Pluggable M-Bus level converter module
- Password-protected web server for the administration of measurement networks
- Sending consumption files to SFTP servers
- Parameterizable via Efficio®

BDL CU – Energy data logger with integrated fieldbus gateway

The BDL CU is a powerful energy data logger with an integrated fieldbus gateway. It records and stores consumption data from up to 82 fieldbus sensors and only requires an Ethernet network. It can be conveniently parameterized via a web browser or the Efficio® energy management software.

The BDL CU enables the simultaneous recording and processing of energy meters and sensors via Modbus RTU (RS485) or M-Bus. The device is also equipped with four S0 digital inputs, which ensure the direct connection and precise recording of pulse meters.

The integrated memory allows long-term archiving of time-synchronized load profile data for a period of up to 12 months. In addition, the recorded log files can be transferred cyclically and automatically via the network to higher-level EnMS systems.

Technical features

- Recording data retrieval via a web browser without additional software
- Automatic transmission of logged consumption data to an SFTP server
- High data and system security thanks to password protection and controlled network access
- Support of Modbus RTU and M-Bus protocols for comprehensive consumption monitoring
- Two 10/100 BaseTx Ethernet interfaces and one RS485 interface
- Robust design for use in industrial environments

Your advantages

The BDL CU enables you to transparently record and analyze your energy consumption - the basis for increasing energy efficiency and obtaining ISO 50001 certification.

The integrated gateway server simplifies the monitoring of electricity, gas, water and heat supply networks. Thanks to a future-proof system architecture with certificate-based authentication and encrypted data transmission in accordance with IEC 62351/3 (TLS), a high security standards is guaranteed.

Firmware updates can be rolled out cyclically and automatically via the Efficio® energy management system.

Further information is available at:

Berg GmbH | Member of VIVAVIS
Fraunhoferstraße 22 | 82152 Martinsried | Germany
T +49 (0)89/379160 - 0 | F +49 (0)89/379160 - 199
E info@berg-energie.de | W www.berg-energie.de

Berg – the energy optimizers®

BDL CU

Smart Energy Controller

BDL CU - Smart Energy Controller

Processor	ARM Cortex-A7
System time	Buffered real-time clock, buffer time min. 7 days
Service and parameterization interface	Mini-USB 2.0 typ B (device)
Memory card	16 GB micro SD card, max. 32 GB (SDHC)
Communication interfaces	1x RS485 (Modbus RTU) galvanically isolated
	2x Ethernet 100 Base-TX, auto-MDI(X), auto-negotiation
Digital inputs	4x S0 pulse inputs EN 62053-31
Power supply	24 V DC (±10 %)
Power consumption	4.9 W
Enclosure	according to DIN 43880, protection class IP20
Dimensions (WxHxD)	71.5 x 90 x 60 mm (4TE)
Mounting	Mounting rail (TS35) according to DIN EN 60715
Operating temperature	-20…60 °C
Order no.	5010 Smart Energy Controller
	5422 Parameterization cable

BDL SI31M – M-Bus interface module

Communication interface	1x M-Bus EN 13757 compliant, 50 standard loads
	8-pole plug contact
Power supply	24 V DC
Power consumption	5.3 W
Dimensions (WxHxD)	36 x 90 x 60 mm (2TE)
Order no.	5011 M-Bus interface module

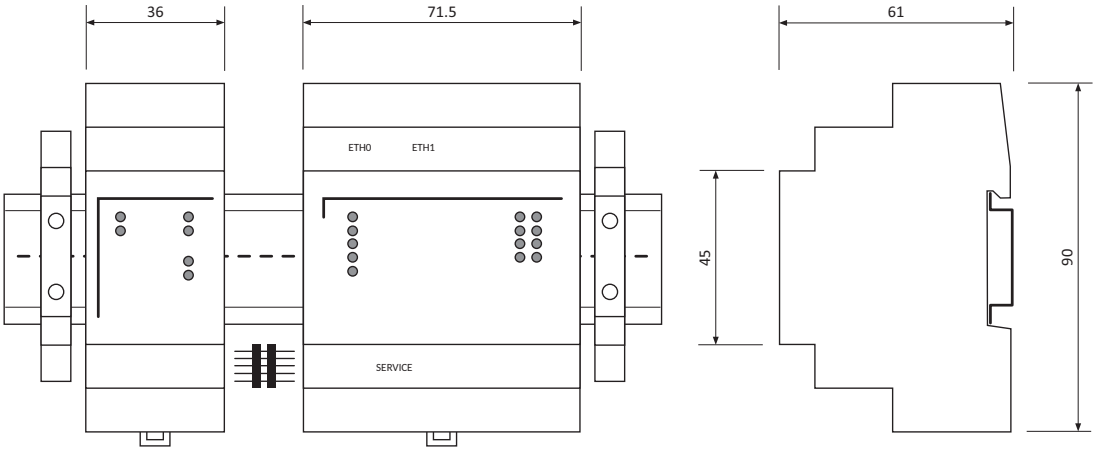


Illustration: Dimensional sketch SI31M module and BDL CU central processing unit