

## EDL 50/55: Energy Data Logger for EMS

### How energy efficiency is improved

The SAUTER EDL 50 and EDL 55 enable you to analyse energy consumption comprehensively. The Energy Data Loggers gather data from different meters as well as other sources and send it to the EMS server. This lets you keep track of your consumption values independently of any Building Management System (BMS)

### Features

- Integrated M-Bus master for 25 devices
- No moving parts
- No fan
- Flash card as storage medium
- SIM card (EDL 55 only)
- EDL50/55 can be fitted directly on a top-hat rail according to EN 60715
- Power supply: 18...30 V= (max. 0.7 A, typ. 2.4 W) via connection terminal block using Phoenix screw terminals
- EDL 55 is delivered without a GSM antenna. Antenna connection: FME plug, coaxial, impedance 50 Ω

### Technical data

Parameters		
Power supply		18...30 V= (max. 0.7 A, typ. 2.4 W)
Power consumption		12 W (typical)
Ambient conditions		
Operating temperature		-25...75 °C
Humidity without condensation		5...95% relative air humidity
Architecture		
Processor		ARM9, 400MHz
Memory		128 MB RAM + 256 MB flash
Interfaces and communication		
Ethernet		1x 10/100 Base-T RJ45
COM 1		1x RS-232, 1x RS-485
Hardware extension		Slot for SD card (max. 32 GB)
Driver		BACnet/IP Modbus (TCP & RTU) M-BUS (master for 25 slaves) KNX-IP, IEC 61107 M-Bus converter included
Construction		
Fitting		Top-hat rail as per EN 60715
Weight		0.225 kg
Dimensions W x H x D		88 x 57 x 91
Standards and directives		
EMC directive 2004/108/EC		EN 60950, EMC:EN 55022 (9:2003), EN 55024 (10:2003) EN 60950, EMC: EN 55022 (9:2003), EN 55024 (10:2003)

### Overview of types

Type	Description
EDL50F001	Energy Data Logger 50 for max. 50 DP, without GSM, without software
EDL55F001	Energy Data Logger 55 for max. 50 DP, with GSM, without software and without antenna
EDL50F002	EDL 50/55 software licence for 10 data points, obligatory for EDL50 and EDL55



EDL50F001



EDL55F001



### Description of operation

The EDL 50/55 Energy Data Logger gathers data from different meters and sources and sends it to an EMS server. This provides an overview of all the consumption values independently of the building management system (BMS).

### Intended use

This product is only suitable for the purpose intended by the manufacturer, as described in the "Description of operation" section.

All related product documents must also be adhered to. Changing or converting the product is not admissible.

### Engineering notes

The EDL can handle up to 50 data points. All the drivers listed are included in the scope of delivery for the software and activated using a licence key. The configuration of the data points is performed by downloading a development studio via a LAN connection. Alarms can be defined for every relevant data point.

Local alarms can also be forwarded via e-mail and/or SMS. There is also the option to define time switching programmes. The number of time switching programs depends on the driver and the local conditions. The EDL can also set up a VPN connection to meet any security requirements necessary for transmitting data over the internet from remote locations.

### Disposal

When disposing of the product, observe the currently applicable local laws.

More information on materials can be found in the Declaration on materials and the environment for this product.

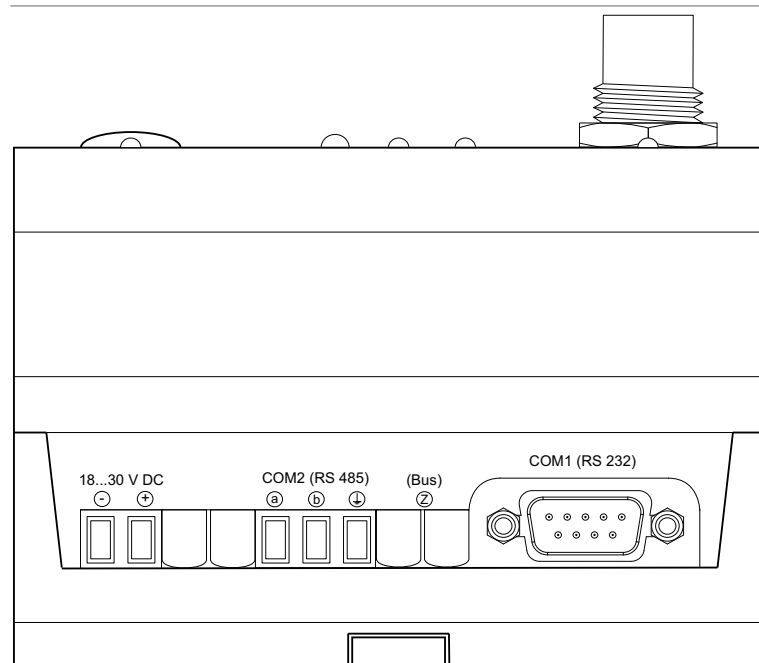
### Dimension drawing

#### Main dimensions of housing

L × W × H = 90 × 88 × 58 mm

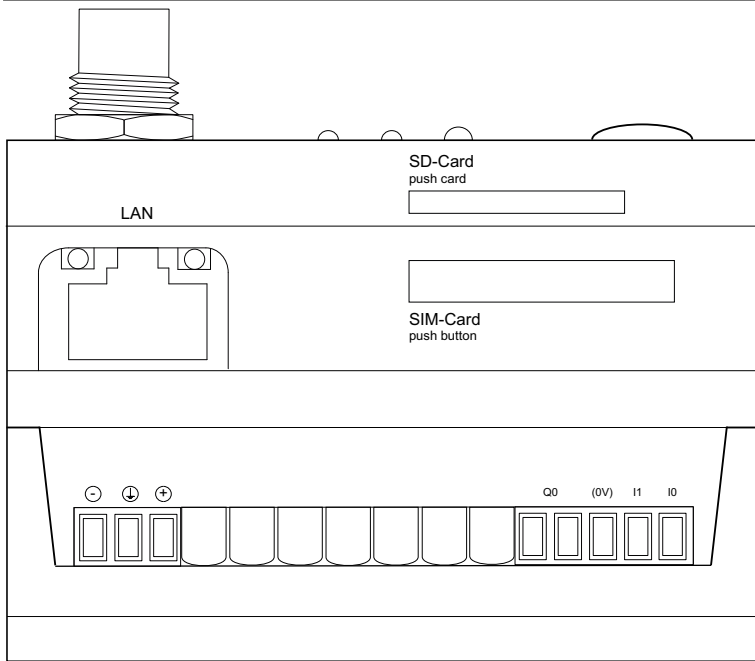
### Connection diagram

Front view of EDL50/55



A10790

Back view of EDL50/55



A10791