

## EDL 600: Energy Data Logger for EMS

### How energy efficiency is improved

With numerous communication options and an integrated firewall, SAUTER energy data loggers (EDL's) are the ideal data capture devices. They allow all local measured data and meters to be recorded on site – reliably and economically – and independent of a building management system (BMS). The data is synchronised regularly with the EMS Server and the measurements can be protected for several days. This acts as a safeguard in the event that connection to the server is interrupted.



### Areas of use

SAUTER EDL offers the possibility of connecting systems to the EMS server and benefiting from all the advantages of the software SAUTER EMS without having to use a building management system. Available in the "Cloud Computing" version (hosting package) or in the local version without hosting (system solution), SAUTER EMS is a complete solution for energy data management. The SAUTER EDL collector has the most diverse range of drivers for integrating your system. The drivers for BACnet/IP, Modbus (IP-RTU), M-BUS and KNX IP are already included in the basic version.

### Keep your firmware always updated

SAUTER EDL include a software package regularly updated to include new features and improve existing features. Security is also and mostly a SAUTER concern for its customers and software upgrade package include security patches to keep the system as safe as possible. The yearly software maintenance option allows to be sure to always receive the last version for the EDL Software. This option can be activated for any EDL and at any time.

### Features

- No moving parts
- No fan
- Memory on flash card

### Technical description

- Power supply: 24 V=, max. typ. 2.4 W by terminal block fitted with Phoenix screw terminals  
(Note: The power supply is not included in the delivery.)

### Products

Type	Description
EDL600F001	EDL 600 EMS Energy Data Logger without Software
EDL600F002	(EDL) 10 EDL Datapoints from 1 to 100 DP
EDL600F003	(EDL) 100 EDL Datapoints from 101 to 1.000 DP
EDL600F004	(EDL) 1.000 EDL Datapoints from 1.001 to 10.000 DP

### Hardware Options

Type	Description
EDL600F0010	EDL 600 GB LAN Module (1xRJ45-connector)
EDL600F0011	EDL 600 WLAN Module (802,11 a/b/g/n)
EDL600F0012	EDL 600 RS-232 Module (2x DB9 connector)
EDL600F0013	EDL 600 RS-422/485 Module (2x DB9 connector)

### Software Options

Type	Description
EDL140F001	(EDL) Driver Wurm/IP Refrigeration Systems *
EDL140F002	(EDL) Driver Danfoss Refrigeration Systems *
EDL140F003	(EDL) Driver Elreha Refrigeration Systems *
EDL140F004	(EDL) Driver SNMP (Simple Network Management Protocol) *
EDL140F005	(EDL) Driver SQL (Database Connection) *
EDL140F006	(EDL) Driver SAIA-S-Bus IP (UDP)*
EDL140F007	(EDL) Driver Siemens Simatic S5/S7*
EDL420F001	(EDL) Software maintenance per year from delivery
EDL420F004	(EDL) Software maintenance reinstatement per month since the delivery

\*Driver availability depending on EDL Firmware version (details on EDL driver datasheet)

## Technical features

### Power supply

Supply voltage	24 V= ±15%
Power consumption	14 W (typically) 24 W max.

### Interface, communication

Ethernet	1 x 10/100/1000 Mbps (2x RJ-45 Port)
COM	1 x RS-232
	1 x RS-485
USB	4 x 2.0

Drivers included in the licence	BACnet/IP Modbus (TCP & RTU) M-BUS KNX-IP
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Various	Chassis Grounding Protection
Display	1 x DisplayPort v1.1, 1 HDMI v1.3

### System Hardware

Processor	AMD G-series T40E 1.0G Hz dual core, 512 MB
Memory	On-board 2 GB DDR3 833/1066 MHz

### Permissible ambient conditions

Operating temperature	0...60°C
Humidity non-condensing	10...95% RH at 40 °C

### Fitting

Type, holder	DIN Rail Mounting Kit
Dimensions L x H x W (mm)	190 x 107 x 47
Weight (kg)	1.0
Certification	CE, FCC, UL, CCC, BSMI

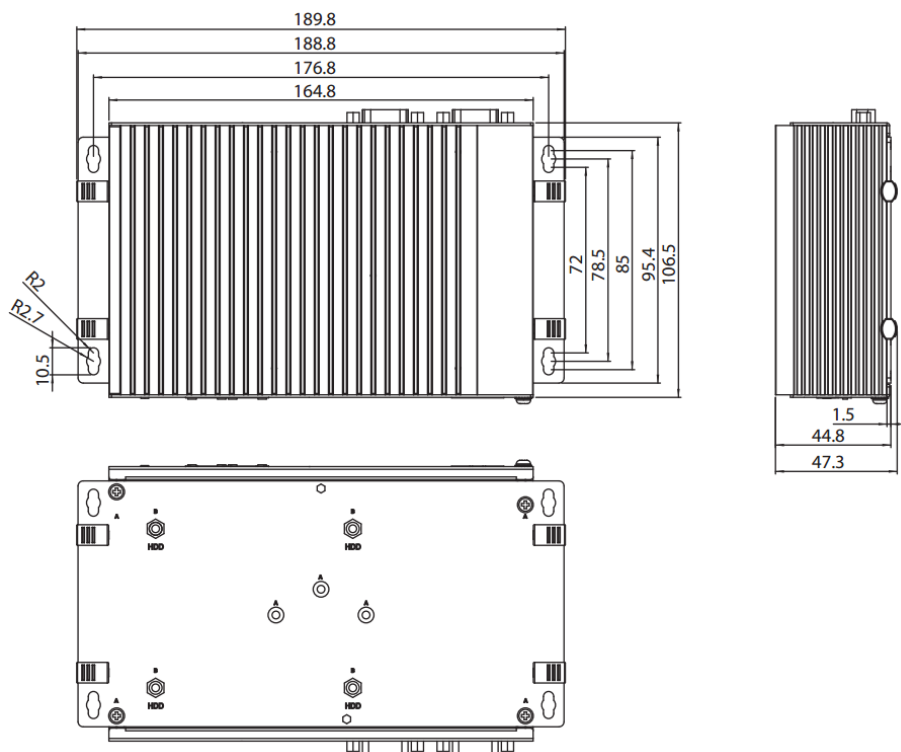
Protection class	IP40
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## Comments on the project study

All drivers listed are included with the software and are activated via a license key. For all relevant data points alarms can be defined. Alarms can be kept in sync with EMS, so that acknowledge is possible on EDL or EMS. There is also the possibility to define time schedules. In addition, the EDL establish a VPN connection in order to meet the necessary security requirements for transmission of data over the Internet from remote locations.

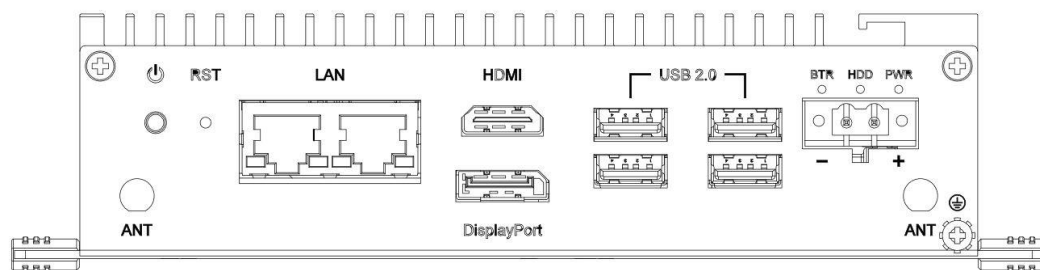
The configuration of an EDL is done via a development studio and will then be transmitted to the EDL. The EDL contains a full HTML5 Web Server allowing to configure, visualize data and monitoring the system from any device (Computer, smartphone or tablet). Integration with the EMS server is completely prepared. An EMS administrator is being able to manage local users on EDL, upgrade remotely the EDL firmware and backup all EDL linked to the project automatically.

## Dimension drawing



## Connection diagram

Front view of EDL 600



Rear view of EDL 600

