

## modu840: Local operating unit

### How energy efficiency is improved

SAUTER EY-modulo 5: the latest technology.

### Areas of application

Direct local display, navigation and operation of automation stations

### Features

- Pluggable element for extending the modu525 automation station
- Local operating and display unit for direct local and manual operation of automation station modu525
- Intuitive single-button operation with turn-and-press functionality
- Graphic display with various font sets and types
- Menu-driven navigation with user login for operation authorisation
- Visualisation of information with structured plant display
- Two LEDs for plant alarm and function status
- Displays objects, alarms and other information
- Part of the SAUTER EY-modulo 5 system family

### Technical description

- Power supply direct from automation station
- LCD resolution: 160 x 100 pixels
- In any one of four languages
- Directly pluggable into EY-modulo 5 automation stations
- Can be removed for installation with accessories in MCC

### Products

Type	Description
EY-OP840F001	Local operating unit for EY-modulo 5 automation station

### Technical data

#### Electrical supply

Power supply	from automation station
Power consumption	up to 50 mA
Dissipated power	up to 0.1 W

#### Display

LCD	160 x 100 pixels monochrome
Operation	'turn & press'
Rotary knob	+/-, down/up
with confirmation	OK (short), Start (long > 3 s)

#### Interfaces, communication

Internal connection	5-pole spring pin for feed and data communication
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#### Permitted ambient conditions

Operating temperature	0...45 °C
Storage and transport temperature	-25...70 °C
Humidity	10...85% rh
	no condensation

#### Installation

Dimensions W x H x D (mm)	186 x 120 x 73
Weight (kg)	0.11

#### Standards, guidelines and directives

Type of protection	IP 20 (EN 60529)
Protection class	III (EN 60730-1)
Environmental class	3K3 (IEC 60721)
CE conformity as per	
EMC Directive 2004/108/EC	EN 61000-6-1
	EN 61000-6-2
	EN 61000-6-3
	EN 61000-6-4
	EN 55024

#### Additional information

Fitting instructions	P100002318
Fitting instructions for accessories	
4-fold front frame	P100003733
Adaptor	P100003732
Material declaration	MD 93.015

### Accessories

Type	Description
701003500x	modu840 operating instructions (language: x=1 (De), x=2 (Fr), x=3 (En))
0930240511	Front frame for 4 operating / signalling units
0930240541	RJ-45 connection adaptor for front frame operating panel



T10603

**LED displays modu840**

LED name	Condition	Frequency	Description
RUN / FAULT	no display		Application incorrectly installed on modu840 Automation station is switched off
	green flashing	• • • • •	Data communication with server or update in progress
	green lit continuously	—————	modu840 in operation
	red lit continuously	—————	Communication error modu840 to automation station Processor load at upper limit
ALARM	red flashing	• • • • •	Collective alarm active (IN_ALARM) or alarm summary min. 1 active alarm
	red lit continuously	—————	Collective alarm active and acknowledged or alarm summary min. 1 active acknowledged alarm
	no display		no active alarms

**Engineering notes**

The modu840 local operating unit can be used to supplement the modu525 automation station and the I/O modules of the EY-modulo 5 system family. The modu840 enables the visualisation and operation of all data points and control loops in parallel to the integrated web browser. Simultaneously, time programs can be edited and alarm notifications visualised and acknowledged with the modu840 operating unit.

The modu840 can be installed and removed during ongoing operations (hot-plug capable) without impeding any functions of the automation station or I/O module.

The modu840 operating unit works without any special commissioning or engineering. It is therefore possible to use a modu840 operating unit sequentially for various modu525 automation stations.

A guest access point enables the visualisation of data points and control parameters and allows alarm notifications to be read out at any time without password legitimisation. The available functionality of the modu840 operating can be extended in relation to various levels of user authorisation through a separate login process.

**Note**

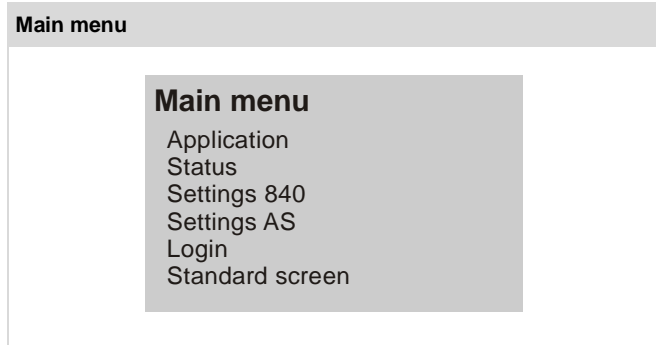
Data points can be switched in constant manual operation via a local modu840 operating unit. This kind of manual intervention by a user stops the automatic control of these data points. Outputs from automation stations or I/O modules that are in manual operating mode may temporarily change condition during a download.

The direct operating units (DOU) of I/O modules, which are used to control outputs manually, can overwrite both the automatic control and the manual operation of a data point triggered by a modu840 or the integrated moduWeb web server. This type of overwritten data point is indicated specifically on the graphic LCD unit.

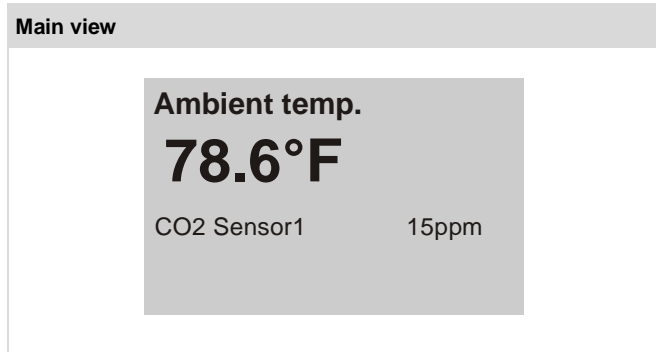
**Operation**

The modu840 has just one operating knob and is based on an intuitive turn-and-press operating concept.

Information is displayed via a clear-cut menu structure especially optimised for the LCD display unit. The main menu branches to project-specific structured data point presentation, to the plant status or to the settings for the automation station or the operating unit.



In case of user inactivity the main view shows a dynamic presentation of up to three data points as the standard view.



A detailed description of operation is contained in the corresponding user's manual HB7010035003.

**External installation**

A front frame (accessory) can be used to enable external installation of the operating unit. The automation station is connected to the operating unit via an adaptor unit connected to the front frame. The electrical connection is made using a commercially available RJ-45 patch cable (at least Cat. 5). The distance between automation station and front frame or operating unit can be up to 10 m. Details can be referenced from fitting instructions P100003732 and P100003733.