

EY-OP 840: Local operating unit, modu840

How energy efficiency is improved

SAUTER EY-modulo 5 technology: modular, fast and universal

Features

- Part of the SAUTER EY-modulo 5 system family
- Can be plugged directly onto an EY-modulo 5 automation station
- Pluggable element for extending the modu525 automation station
- Local operating and indicating unit for direct local and manual operation of the modu525 AS
- Intuitive single-button operation (using the 'turn and press' method)
- Graphic display with various font sets and types
- Menu-led navigation with user login for operation rights
- Visualisation of information with structured plant display
- Two LED indicators for plant alarm and function status
- Displays objects, alarms and other information
- Choice of four languages
- Can be installed remotely (using accessories) in cabinet



EY-OP840F001

Technical data

| Power supply | | |
|-----------------------------------|---------------------------|--|
| Power supply | | From AS |
| Power consumption | | ≤ 50 mA |
| Power loss | | ≤ 0.1 W |
| Ambient conditions | | |
| Operating temperature | | 0...45 °C |
| Storage and transport temperature | | -25...70 °C |
| Admissible ambient humidity | | 10...85% rh, no condensation |
| Indicators, display, operation | | |
| Resolution | | 160 × 100 pixels, monochrome (LCD) |
| Operation | | Turn and press |
| Rotary knob | | +/-, down/up |
| Acknowledgement | | OK (short), start (long > 3 s) |
| Interfaces and communication | | |
| Internal connection | | 5-pin pogo pins for supply and data communication |
| Construction | | |
| Weight | | 0.11 kg |
| Dimensions W x H x D | | 85 × 94 × 25 mm |
| Standards and directives | | |
| Type of protection | | IP 20 (EN 60529) |
| Protection class | | III (EN 60730-1) |
| Environment 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 |

Overview of types

| Type | Properties |
|--------------|-------------------------------|
| EY-OP840F001 | Local operating unit, modu840 |

Accessories

| Type | Description |
|------------|------------------------------|
| 7010035001 | modu840 user manual, German |
| 7010035002 | modu840 user manual, French |
| 7010035003 | modu840 user manual, English |



| Type | Description |
|------------|--|
| 0930240511 | Front frame for 4 operating/indicating units |
| 0930240541 | Connection adaptor for RJ-45 operating panel for front frame |

Description of operation

The modu840 local operating unit is used for the display, navigation and operation of the EY-modulo 5 automation station and their plants on site.

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.

modu840 LED indicators

| LED name | Status | Frequency | Description |
|-----------|------------------------|-----------------|--|
| RUN/FAULT | No indicator | | Application not correctly initialised on modu840 AS is switched off |
| | Flashing green | o o o o o o o o | Data communication with server or update process |
| | Continuous green light | ————— | modu840 in operation |
| | Continuous red light | ————— | Communication error from modu840 to AS Memory capacity utilisation is near limit |
| ALARM | Flashing red | o o o o o o o o | Collective alarm active (IN_ALARM) or alarm summary min. 1 active alarm |
| | Continuous red light | ————— | Collective alarm active and acknowledged or alarm summary min. 1 active acknowledged alarm |
| | No indicator | | No active alarms |

Engineering notes

The modu525 automation station and the I/O modules of the EY modulo 5 system family can be complemented by the modu840 local operating unit. Parallel to the integrated moduWeb web browser, the modu840 allows visualisation and operation of all data points and control loops. As the same time, time programmes can be edited with the modu840 operating unit and alarm messages visualised and acknowledged. A modu840 operating unit can be installed or removed during operation (hot-pluggable) without affecting the functions of the automation station or I/O modules.

The modu840 operating unit works without special commissioning or project engineering. For this reason, a modu840 operating unit can be used for various modu525 ASes consecutively.

Guest access allows visualisation of data points and control parameters as well as reading out of alarm messages at any time without password authorisation. Depending on various user authorisations, a separate log-on can be used to increase the available functionality of the modu840 operating unit, depending on the user level in each case.



Note

The modu840 local operating unit can be used to switch data points to constant manual mode. A manual intervention of this kind by the user stops automatic regulation of these data points. Outputs of the AS or the I/O modules in manual position may change their status briefly during a download.

The direct operating units of the I/O modules, which can be used for manual actuation of outputs, allow both the automatic control and the manual operation of a data point triggered by modu840 or the integrated moduWeb web server to be overwritten. Overwritten data points of this kind are specially marked in the graphic LCD.

Operation

The modu840 has a single operating knob and is based on an intuitive "turn and push" operating concept.

Visualisation is via a simple menu structure optimised especially for the LCD. The main menu branches off to project-specific, structured data point representation, to the system status or to the settings for the operating unit or AS.

Main menu**Main menu**

Application
Information
Settings 840
Settings AS
Login
Standard screen

If the user is inactive, the main view with the dynamic display of up to three data points will appear by default.

Main view**Outside temp.****24°C**

CO2 Sensor1

15ppm

You will find a comprehensive description of operation in the HB7010035001 operating manual.

Remote assembly

For external installation of the operating unit, a front frame (accessory) can be used. An adaptor unit is used to connect the AS or operating unit to the front frame. The electrical connection is established by means of a commercially available RJ45 patch cable (cat. 5 and above). The distance from the AS and the front frame or operating unit may be up to 10 m. Detailed information can be found in the P100003732 and P100003733 fitting instructions.

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.