# EY-OP850F904: Touch-panel

## Features

- Compatible with SAUTER EY-modulo 3 and SAUTER EY-modulo 5 system family
- Graphic, pressure-sensitive operating and display unit for network-wide operation
- Alarm lists, data point lists, time switching programmes, calendars and trend data
- Change specified setpoints, positioning values and digital positioning commands
- Edit time switching programmes and calendars
- Freely-programmable graphic plant presentations with dynamic data points
- Access rights with users and group created individually
- Can be parameterised via Sauter Mobile Studio (languages, datapoints, graphics, protocol bridge)
- Ethernet Port for parameterisation, updating and communicating with Ethernet Protocol (BACnet-IP, Modbus-IP, KNX-IP)
- 9pin RS-232/RS485/RS-422 interface for serial protocol (Modbus-RTU, BACnet MS/TP)
- Web Server for remote connection over Intranet and Internet

## Technical data

| | | |
|---|---|---|
| **Power supply** | | |
| | Power supply voltage | 24 Vdc (18 to 32 Vdc) |
| | Current consumption | 0.25 A max at 24 Vdc |
| **Enviromental Conditions** | | |
| | Operating temperature | 0...+50 °C |
| | Storage and transport temperature | –20...+70 °C |
| | Operating and storage humidity | 5...85% rh, no condensation |
| **Indicators, display, operation** | | |
| | Display Type | TFT |
| | Resolution | 480 × 272 |
| | Active display area | 4.3'' diagonal |
| | Touch | Resistive |
| | Colors | 64K |
| | RAM Memory | 256 MB |
| | Flash Memory | 2 GB |
| | CPU | ARM Cortex A8 300 MHz |
| **Interfaces and communication** | | |
| | Ethernet | 1× 10/100 Mbit |
| | Serial | 1× R-S232/RS-485/RS-422 sw config |
| | USB | 1x Host (V2.0, max 500 mA) |
| | Buzzer | Yes |
| **Dimensions and Weight** | | |
| | Faceplate LxH | 147×107 mm (5.78x4.21") |
| | Cutout AxB | 136x96 mm (5.35x3.78") |
| | Depth D+T | 29+5 mm (1.14+0.19") |
| | Weight | Approx 0.4 Kg |
| **Standards and directives** | | |
| | Type of protection | Front IP66, Rear IP20 |
| | Protection class | I (EN 60950-1) |
| | Environment class | 3K3 (IEC 60721) |
| | Approval CE | EN 61000-6-4, EN 61000-6-2 |
| | | EN 61000-6-3, EN 61000-6-1, |
| | Approval UL | Pending |

## Accessories

### Software

| Type | Description |
|---|---|
| SauterMobileStudio | Configuration Tool for points definition and Graphics dynamization |
| Installing and Commissioning | User manual for installation and Commissiong of the Touch Panel, English |

### Connecting cables

| Type | Description |
|---|---|
| CavoUniversale | 9 pin to RS-485 for Modbus and BACnet MS/TP connection |
| MDR-20-24 | Power Supply Unit |

### Additional information

| | |
|---|---|
| Installation Instruction (ENG, D, F, S, IT) | MV_EY-OP850F9xx |

### Description of operation

The EY-OP850F touch-panel is used for the graphical display, navigation and operation of the Modulo5 automation station (AS) family, modbus device, KNX-IP device, BACnet IP and MS/TP Device and its plants on site.

### Intended use

The EY-OP850 Series products combine state-of-the-art features and top performance with an outstanding design. They have been designed to offer an outstanding price performance ratio for challenging applications. They are the ideal choice for HMI applications including factory, building automation and residential installation.
EY-OP850 features a bright 4.3” TFT widescreen (16:9) display with a fully dimmable LED backlight.

### Engineering notes

### Fitting and power supply

The touch-panel is mounted on the front of a control cabinet, or with the appropriate accessories directly in the wall.
The power supply with 24 Vdc connected via a pluggable connection terminal with an earth conductor. Connection may only be performed when the system is disconnected from the electrical supply.
When commissioning the device, you must remove the protective film on the front, otherwise the readability of the display and the touch function may be negatively affected.
The communication wiring must be carried out correctly and in accordance with standards EN 50174-1, -2 and -3. Communication wires must be kept separate from other live wires.

### Benefit

Multiple protocols contemporary working on Ethernet port (Bacnet-IP, Modbus-IP & KNX-IP);
Possibility to provide modulo 5 Automation Stations information in Modbus Protocol (RTU & IP);

Email message in case of Alarm or predefined situation;

Exportable Trend Data and Report creation with possibility to schedule the creation;

USB and FTP to export Trend, Audit Trail and Alarm Historical Data o r Report;

User and Group Management for limit the access on the panel;

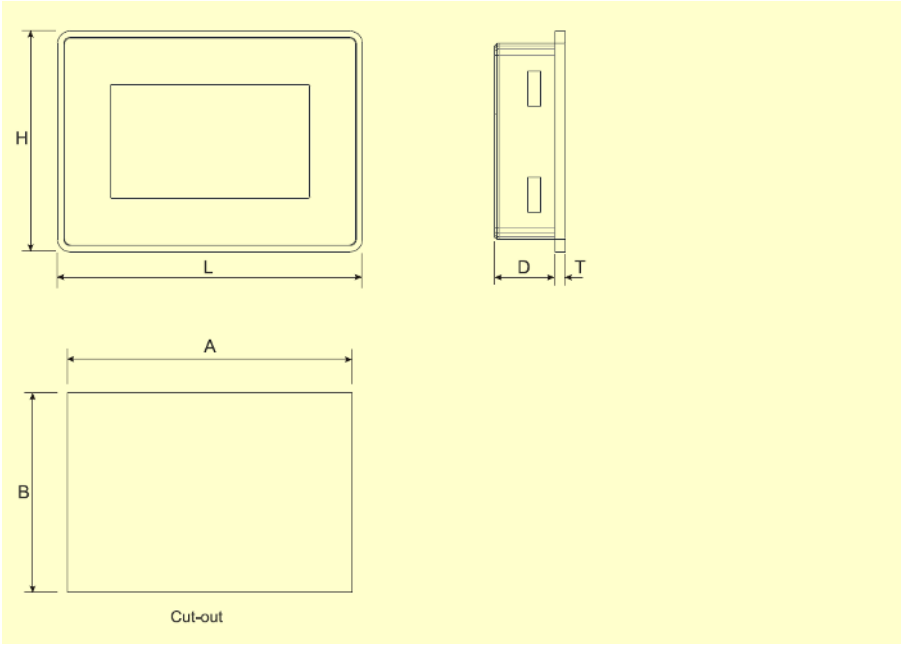
## Operation

Operation is entirely by touching the display directly, whereby the configuration (data points) of the attached devices are configured using the Sauter Mobile Studio Application provided with the Panel.

## Connections for parameterisation

The RJ-45 connection (Ethernet) is used for application downloads and firmware updates.

## Dimension drawing




## Connection diagram