

modu250: Touch-panel

How energy efficiency is improved

SAUTER-EY-modulo2 – thoroughly tried-and-tested technology with a new design.

Areas of application

Local graphic display, navigation and operation for automation stations and their installations.

Features

- Graphic, pressure-sensitive operating and display unit for network-wide operation of EY-modulo 2 automation stations
- Menu-guided user interface to visualise automation stations and plants
- Alarm lists, data point lists, time switching programmes and calendars, also trend data
- Changing of specified setpoint and positioning values, also digital positioning commands
- Processing time switching programmes and calendars
- Freely programmable graphic plant displays with dynamic data points
- Access rights with individual entry of users
- Part of the SAUTER EY-modulo 2 system family



Technical description

- Power supply: 85...250 V~/ 48...62 Hz
- Graphic display: 320 x 240 pixels (QVGA)
- Active area: 140 x 105 mm
- Versions: Colour with 256 colours (F001), monochrome b/w (F002)
- Can be parameterised via CASE Suite (languages, applications)
- RJ-45, DB-9 interfaces for parameterisation and updating
- RJ-11 interface for novaNet system bus

Products

Type	Description
EY-OP250F001	Touch-panel display: colour
EY-OP250F002	Touch-panel display: monochrome

Technical data

Electrical supply

Power supply	85...250 V~ (48...62 Hz)
Power consumption	up to 7 W

Version

Display	5.7 inches
colour / monochrome	4-wire resistive touch
Resolution	320 x 240 (QVGA)
Colour display	256 colours
Backlight	Time-controlled switch-off
Active area W x H	140 x 105 mm
Memory	8 MB flash, 8 MB RAM

Interfaces, communication

novaNet	1x RJ-11 socket
Ethernet 10BaseT	1x RJ-45 socket
EIA-232	1x DB9 plug

Permitted ambient conditions

Operating temperature	0...45 °C
Storage and transport temperature	-25...70 °C
Humidity	10...80% rh
	no condensation

Installation

Dimensions W x H x D (mm)	204 x 156 x 46
Weight (kg)	1.0

Standards, guidelines and directives

Type of protection	IP 20 (EN 60529)
with accessory 0374515 001	IP 65 (front)
Protection class	I (EN 60950-1)
Environmental class	3K3 (IEC 60721)
CE Conformity as per	
EMC Directive 2004/108/EC	EN 61000-6-1
	EN 61000-6-2
	EN 61000-6-4
	EN 55022 Class A
Low Voltage Directive	
2006/95/EC	EN 60950-1

Additional information

Fitting instructions	P100002332
Material declaration	MD 93.070
Dimension drawing	M10023
Wiring diagram	A09966

Accessories

Type	Description
	Software
GZS100F599	ASE Tools CD, latest version (CASE TPC, CASE HWC, CASE Sun, novaNet292 SW, ...)
7001064001	Operating instructions, German
	Connecting cables
0367862001	Automation station - modu250 1.5 m
0367862002	Automation station - modu250 2.9 m
0367862003	Automation station - modu250 6.0 m
	General
0374494001	Stylus set for modu250
0374509001	Power supply connector, 3-pin, packaged
0374515001	Set to extend degree of protection, IP 65 (incl. seal, 0374680001)
0374680001	Individual seal (for set 0374515001)

Engineering notes

Installation and power supply

The touch-panel may be fitted to a top-hat rail or directly to the front of a control cabinet.

The power supply (85...240 V alternating current) is connected via a plug-in connection terminal with a protective conductor. This connection work must only be done when there is no voltage (dead).

When starting operation for the first time, the protective film must be removed from the front, otherwise the LCD display may be difficult to read and the touch function may be impaired.

Communication cabling must be undertaken correctly and must meet the requirements of standards EN 50174-1, -2 and -3. Communication cabling must remain separate from other cabling that carries power.

Data line

The direct connection to the novaNet network (RJ-11 socket) enables access to all automation stations that are connected.

One touch-panel can communicate with a maximum of 100 automation stations.

Every touch-panel in the novaNet network requires a unique (single) address between 31744 and 31799 (like participating PCs); the factory setting is 31999.

If the touch-panel is connected directly to the moduFlex universal controller via point-to-point module 0374448001, the maximum cable length is 6 m.

No account has been taken of special standards such as IEC/EN 61508, IEC/EN 61511, IEC/EN 61131-1 and 2 and similar standards. Local regulations on installation, application, access, access authorisations, accident prevention, safety, dismantling and disposal must be observed. Compliance is also required with installation standards EN 50178, 50310, 50110, 50274, 61140 and similar.

LED displays

LEDs above the touch-panel display information as follows:

- flashing green middle LED indicates that the power supply is OK
- flashing red outside left LED indicates an active alarm in an open application.

Operation

All operations are performed by touching the display directly. In 'plug & play' mode, automation station configurations (data points) are automatically read out and may thus be managed as follows without requiring additional parameterisation:

- Application display and selection (direct access to automation stations)
- Measured value, alarm and status display
- Issuing analogue and digital positioning commands (up to 200 data points per station or installation).
- Display and change time or holiday programmes, date and time of day
- Read and display historical data (max. 3 data points per screen).
- Configure password and access rights
- General settings (contrast, calibration, reboot, system info)

CASE TPC (GZS100F599) parameterisation software may be used to create a custom user interface (graphics, charts, lists). This provides a convenient means of implementing user-specific displays.

Connections for parameterisation

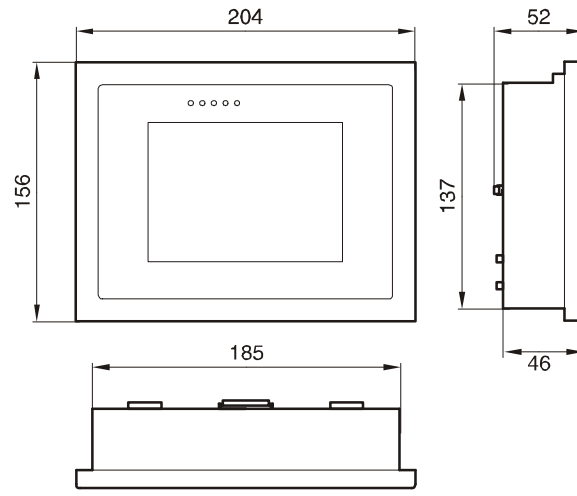
The RJ-45 connector (Ethernet) and DB9 interface (EIA-232) are used for downloading applications and firmware updates.

- This device is only for TN-S network systems.
- Ethernet, novaNet und Com are SELV/PELV power circuits and must not be connected to ELV or TNV networks.
- For equipment with a fixed connection, an easily accessible disconnection device must be available nearby.

This is class A equipment. It may cause radio interference in residential premises; in this case, the operator may be requested to implement appropriate measures.

For further information, consult the fitting instructions.

Dimension drawing



Wiring diagram

