ENMI

display modules

Serving as a screen for ENIP-2, ENMI module displays measured and calculated values. It ensures the identity of data transmitted to SCADA and observed by the personnel at the facilities. Paired with ENMI, ENIP-2 can be used as a switchboard.

Long service life LED indicators of ENMI-3 and OLED of ENMI-7 operate in extended temperature range, fit for harsh climate. Large and bright displays, configurable set-points and over-ranging alarm enable operating staff to detect emergency situations quickly.

More sophisticated ENMI-4 and ENMI-5 modules come with LCD screens where data is presented as tables, vector diagrams and graphs. Pointer indicator imitation mode is also available. ENMI-4 mimic diagram mode is used to monitor the current state of switchgear.

ENMI to ENIP-2 connection can be organized in a one-to-one, one-to-many, or many-to-one fashion.

ENMI module can be easily attached to the back of ENIP-2 and ESM. A single patch cord is used for both data connection and power supply.

ENMI can be mounted in switchgear cells, relay cabinet boards, relay compartment or substation control panel.

ENMI-6 is an independent device that displays diagnostic information for digital substation equipment.

Modifications

ENMI-3

LED display modules for ENIP-2 in two housing versions.

ENMI-3, overall dimensions 120 × 120 × 49 mm

ENMI-3, overall dimensions 96 × 96 × 67,6 mm

Display mode and brightness adjustment buttons

ENMI-4

4", FSTN monochrome LCD display modules for ENIP-2. Main form showing switchgear diagram and measurement values.
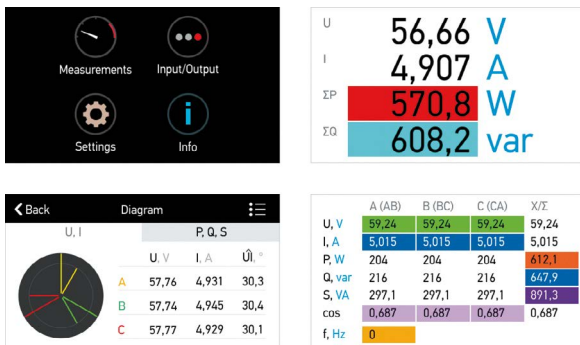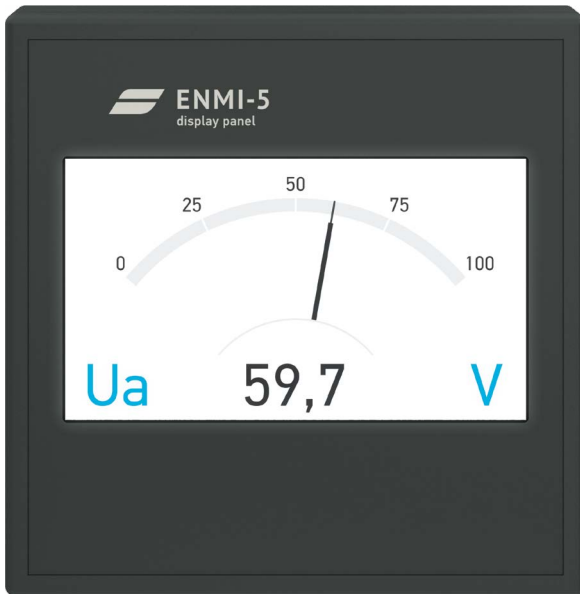

Display mode buttons

Any ENMI display module can be easily attached to the back of ENIP-2. A single patch cord is used for both data connection and power supply.
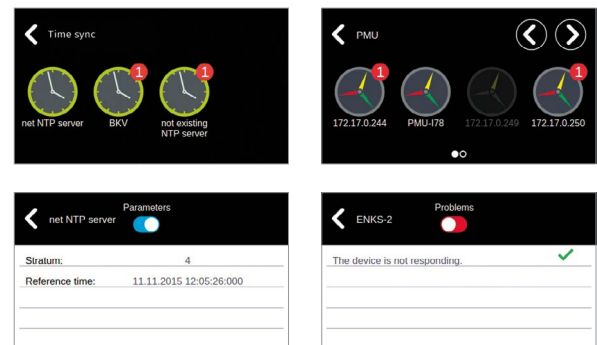
ENMI-5

ENMI-5 is a color display module for ENIP-2 with 4.3" TFT LCD touch screen. The measurement data can be viewed in a great variety of forms from digital values arranged in tables to vector diagrams, from line graphs to pointer indicator simulation. ENMI-5 allows operating personnel to monitor and control the state of digital outputs of ENIP-2.

ENMI-5 screenshots

ENMI-6

ENMI-6 is a diagnostics device with 4.3" TFT LCD touch screen. It is used for diagnostics as a part of WAMS and RTU's solution based on devices polling via SNMP.

ENMI-6 screenshots

ENMI-7

Compact ENMI-7 for ENIP-2 and ESM comes with a monochrome OLED display that operates in a wide temperature range.

Specifications

	ENMI-3	ENMI-4	ENMI-5	ENMI-6	ENMI-7
Type of display	Seven-segment LED (3 lines of 4 digits)	4" FSTN monochrome, 240 × 128 px	4.3" TFT touch screen, 480 × 272 px	4.3" TFT touch screen, 480 × 272 px	OLED 2.42" monochrome, 128 × 64 px
Application	ENIP-2	ENIP-2	ENIP-2, ESM	Diagnostic panel	ENIP-2, ESM
Interface	RS-485	RS-485	RS-485	Ethernet 100Base-TX	RS-485
Power supply	18...36 V DC, 5 VA	18...36 V DC, 3 VA	18...36 V DC, 3 VA	18...36 V DC, 3 VA	18...36 V DC, 3 VA
Operating temperature	from −40 to +55 °C	from −10 to +55 °C	from −20 to +55 °C	from −20 to +55 °C	from −40 to +70 °C
Design and mounting	120 × 120 × 49 mm (IP40) or 96 × 96 × 74 mm (IP40)	120 × 120 × 49 mm (IP40)	120 × 120 × 49 mm (IP40)	120 × 120 × 49 mm (IP40)	96 × 96 × 74 mm (IP40)

Ordering Information

ENMI-X-24-X

Type of display and applicability

3 — LED for ENIP-2
4 — LCD FSTN monochrome for ENIP-2
5 — LCD TFT touch screen for ENIP-2, ENMV-1, ESM
6 — LCD TFT touch screen multipurpose display
7 — OLED monochrome for ENIP-2, ESM

Housing

1 — 96 × 96 × 74 mm (ENMI-3 and ENMI-7 only)
2 — 120 × 120 × 49 mm

Options and accessories

CCRJ05, CCRJ10, CCRJ30
Straight patch cord (RJ45-RJ45), length 0,5/1,0/3,0 m