



# ENCS-2

## Timesync module



Receiving GPS/GLONASS time signals, ENCS-2 serves as a common time source for measuring devices, smart meters, I/O modules, phasor measurement units, merging units, servers and workstations.

ENCS-2 supports multiple time synchronization protocols and interfaces.

For devices connected to a digital substation process bus, ENCS-2 provides synchronization via PTPv2 in accordance with IEC/IEEE 61850-9-3, Power Utility Profile.

ENCS-2 has an OLED display and control buttons on its front panel, a set of interfaces (RS-232, RS-485, and Ethernet), and a PPS output.

## Specifications

|                                 |   |
|---------------------------------|---|
| Accuracy relative to UTC        | 1PPS и IRIG: $\pm 150$ ns;<br>SNTP: $\pm 100$ mks; PTPv2: $\pm 250$ ns  |
| Holdover Performance (1 day)    | ENCS-2: $\pm 20$ ms<br>ENCS-2T: $\pm 1$ ms  |
| Interfaces / protocols          | 2 × 100Base-TX (PRP или 2 IP): PTPv2 (IEC/IEEE 61850-9-3 PUP), SNTP, SNMP;<br>RS-232-1, RS-485-1: NMEA 0183, МЭК 60870-5-101; RS-485-2: IRIG-A(B), 1PPS |
| Power supply                    | 18...36 VDC, 55...176 VDC, or 120...370 VDC / 100...265 VAC (45...55 Hz), 10 VA   |
| Operating conditions and design | -40...+70 °C, 83 × 100 × 110 mm (IP40), DIN-rail mounting   |

## Ordering Information

ENCS-2  -  -A2B1E2

### Power supply voltage

220 – 100...265 VAC (45...55 Hz) or 120...370 VDC

110 – 55...176 VDC

24 – 18...36 VDC

### Modification

not specified – with crystal oscillator

T – with oven-controlled crystal oscillator (OCXO)

## Options and accessories

IEEE 1588v2 PTP support: [PTPv2.encs2](#)

Outdoor GPS antenna: [GPS-P](#), [GPS-ET](#)

Mounting brackets for GPS antenna: [GPS-KP-LITE](#), [GPS-KP-MINI](#), [GPS-KP](#)

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