



Advanced X-Monitor gateway with 3G/4G/NB-IoT/LTE-M modem and Wi-Fi™

- 3G/4G/NB-IoT/LTE-M, Wi-Fi™ and X-Monitor (X-MP) connectivity
- Bidirectional RS485 port
- ModBUS TCP/IP Server
- Native integration with X-Platform

KET-GZE-310

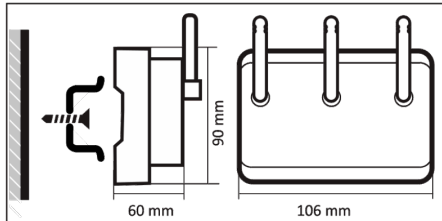
Applications

Monitoring consumption

Smart city

Thermoregulation

The **KET-GZE-310 Gateway**, the central core of the **X-Monitor** network, stands out for its **advanced functions** and **large memory capacity**, key elements for efficient data management. Connection flexibility is ensured by the **integrated 3G/4G/NB-IoT/LTE-M modems (optional)** and **Wi-Fi™ support**, eliminating the need for a LAN connection and expanding installation possibilities even in environments without cabling. Thanks to the **Linux** operating system, the gateway utilizes standard libraries to ensure a high level of security and reliability in data transmission. The installation and management of sensor networks, even complex ones, are extremely simple thanks to the included **X-Manager** software and the intuitive **integrated web interfaces**. These allow for quick configuration of the necessary parameters and real-time monitoring of acquired measurements. In addition to the ability to export data to external platforms like **X-Platform**, the device offers a **large internal SD memory** capable of storing data for periods exceeding three months, ensuring operational continuity and the availability of measurement history. The integrated **RS485 port** supports both **Master RTU** and **Slave RTU** modes, offering dual functionality: direct connection of devices to the gateway or access to the registers of connected devices via an external Master RTU. The **ModBUS TCP/IP server** incorporated in the KET-GZE-310 facilitates the integration of the **X-Monitor** network with **SCADA systems**, **PLCs (programmable logic controllers)**, and **HMI (human-machine interface) systems**, expanding data control and visualization possibilities. Interoperability with proprietary data collection systems is further enhanced by support for data transmission via **REST / JSON web services** and the **IEC**



Technical Features

General specifications	Protection Range: Front: IP40; Screw Terminals: IP20 Operative Temperature: -20 ÷ +70 °C Storage Temperature: -20 ÷ +85 °C Relative Humidity: MAX 80% not condensing
Case	Dimensions: 106 x 90 x 60 mm (W x H x D) Mounting: Wall mounting or on DIN rail Required DIN modules: 6 DIN modules Electric Board Type: Industrial or switchboard Material: Blend PC/ABS self extinguishing UL94-VO
Power supply	Supply Voltage: 100 ÷ 240 VAC (50-60 Hz) or 12 ÷ 24 VDC, 12 ÷ 20 VAC Consumption: 6 W @ 100 ÷ 240 VAC / 6 W @ 12 ÷ 24 V AC/DC Connectors types: Removable screw terminals
Ups	Battery Type: Internal lithium 1 Ah
Datalogger function	Memory Type: Flash up to 128GB internal microSD card not accessible, 1GB RAM DDR3 Data Storage Capacity: For a period of over 3 months
Processors	Processor Type: Allwinner A20 CPU for the Linux operating system
Rs485 interface	Supported Protocols: Master or slave ModBUS RTU Connectors types: Removable screw terminals
Ethernet interface	Supported Protocols: 10/100/1000 Base-T Connectors types: RJ45
Analog outputs	Output Type: Video: HDMI output for OEM use; Touch: a dedicated USB for OEM use; 2 USB ports for FW upgrade and data transfer
Radio module	Supported Protocols: X-Monitor Protocol (X-MP) / IEEE 802.15.4 / ZigBee™ Pro 2.0 Radio Frequency: 2.4 GHz ISM Band Output Power: +3 ÷ +20 dBm Sensitivity: -104 dBm Antenna Type: RPSMA connector, 90° antenna supplied Max Distance (Free Air): Over 1000 m

Technical Features

Modem	Supported Protocols: 3G/4G/NB-IoT/LTE-M Antenna Type: SMA connector SIM Type: Mini-SIM
Wi-fi	Supported Protocols: IEEE 802.11b/g/n standards: 64/128-bit WEP, TKIP, AES, WPA, WPA2 Radio Frequency: 2.4 GHz ISM Band Antenna Type: RPSMA connector, 90° antenna supplied
Functionality	Firmware Upgrade: Remotely
Integrated functions	Services: Gateway function between X-Monitor™ network to Wi-Fi™, Ethernet and cellular; ZigBee™ network coordinator; Server ModBUS TCP/IP; ModBUS RTU master and slave on RS485 port
Certifications	Referends Standard: 2014/35/UE, 2014/30/UE, 2014/53/EU, 2011/65/UE Approvals: CE Security: EN 61000-6-2 / -6-3 / -4-2 / -4-3 / -4-4 / -4-5 / -4-6 / -4-11; EN55022 (cl. B), EN55016-2-1 / -2-3