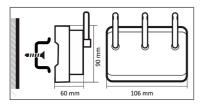
## KET-GZE-310



APPLICATIONS	
monitoring consumption	
Smart City	
Thermoregulation	

























## 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

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<sup>TM</sup> 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-Monitornetwork 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 60870-5-104 protocol, ensuring flexible and standardized communication.

**TECHNICAL FEATURES** 

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 Approximate Battery Life:
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 Communication Rate: Isolation: Connectors types: Removable screw terminals
ETHERNET INTERFACE	Supported Protocols: 10/100/1000 Base-T Communication Rate: 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: 43 ÷ 420 dBm Sensitivity: -104 dBm Antenna Type: RPSMA connector, 90° antenna supplied Max Distance (Free Air): Over 1000 m
MODEM	Supported Protocols: 3G/4G/NB-IoT/LTE-M Radio Frequency: 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	Radio Signal Indicator: Output Power Adjustment: Firmware Upgrade: Remotely
INTEGRATED FUNCTIONS	Services: Gateway function between X-Monitor™ network to Wi-Fir™, 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 Metrology: