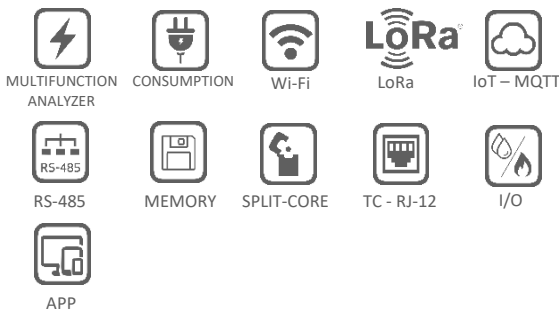


FEATURES

- The **KS-3000** is a smart energy meter conceived to provide electrical parameters info to cloud computing systems, Industry 4.0 and general **IoT** applications, since it can be integrated to various cloud based platforms, such as *Amazon AWS, Microsoft Azure, TagoIO* and many others
- Applicable either on low, mid or high voltage, mono-phase, two-phase or three-phase systems, since it is possible to program the potential and/or current transformer ratios and the connection diagrams. Supplied with split core sensors for AC current measurement, four different nominal currents are available – 5, 100, 300, 600, 1000 or 2000A (selection during the ordering process)
- Allows communication through Wi-Fi (MQTT and Modbus TCP), LoRa (LoRaWan) or RS-485 (Modbus-RTU) connections. Measurement readings can be obtained either locally or remotely, using apps for smartphones/tablets, dashboards, supervisory softwares or web based systems
- Besides its electrical measurement functions, can be used as a data concentrator, receiving signals generated by other resources' meters/sensors, like water, gas or oil meters. Incorporates one digital output (relay) for remote commands (ON/OFF).



APPLICATIONS

- IoT, Industry 4.0 and Automation Systems
- Energy efficiency and Submetering
- Energy Cogeneration systems (4-quadrant metering, delivered and received power)
- Analysis of electrical circuits and equipment
- Any application related to energy and electrical parameters measurements

PRODUCT INFO

ELECTRICAL PARAMETERS – 52

- Includes current, voltage, frequency, energy consumption, energy demands, active, reactive and apparent powers, power factor and other parameters

CONNECTION DIAGRAMS

- Mono-Phase, Two-Phase or Three-Phase systems (configurable)

INSTALLATION

- Plug & Play – Easy installation, with non-invasive current sensors (Split-Core) and RJ-12 connection
- Panel's Background, 35 mm DIN Rail Fastening
- Technical support via e-mail, telephone, WhatsApp and YouTube videos

MEMORY

- FRAM memory, which stores configurations and measurement values, acting as an MQTT buffer when connection to the cloud server is lost.

INTERFACES, READINGS & CONFIGURATIONS

- RS-485, Wi-Fi or LoRa communications
- Modbus-RTU/TCP, MQTT or LoRaWan protocols
- Softwares for reading and parameterization: RedeMB (RS-485), RedeMB-TCP and Kron-Fi (Wi-Fi); Android Apps (MQTT)
- Use in IoT systems and 4.0 Industry, via MQTT Broker. Integration to Dashboards, Apps and other IoT tools
- MODBUS-RTU,MODBUS-TCP/IP protocols, allowing integration to PLCs, master MMIs, data concentrators and supervisory systems

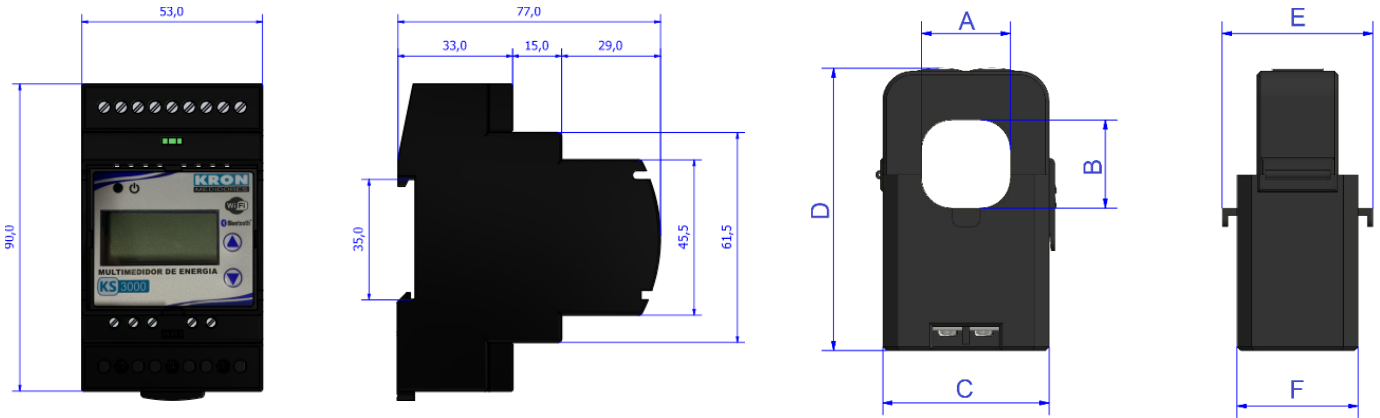
WATER, GAS, OIL, TEMPERATURE, COMMANDS...

- Two digital inputs for concentration of external pulses, generated by other resources meters (like water, gas and oil). One digital output (relay) for remote commands (On/Off)

SMART LED

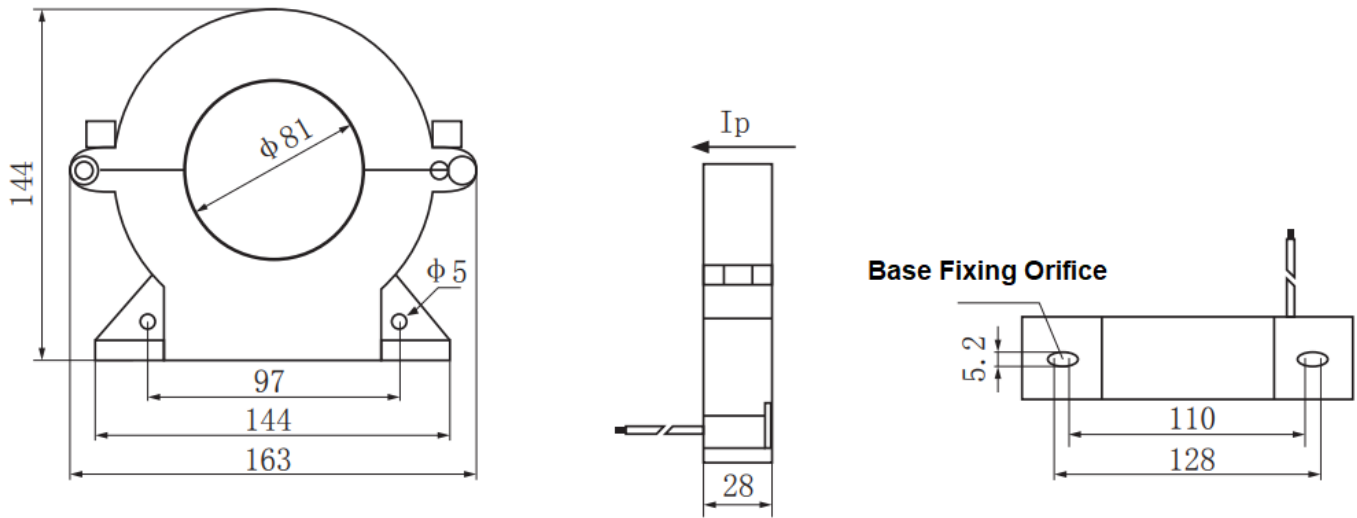
- SMART LEDS which inform installation, communication and operation conditions

DIMENSIONS

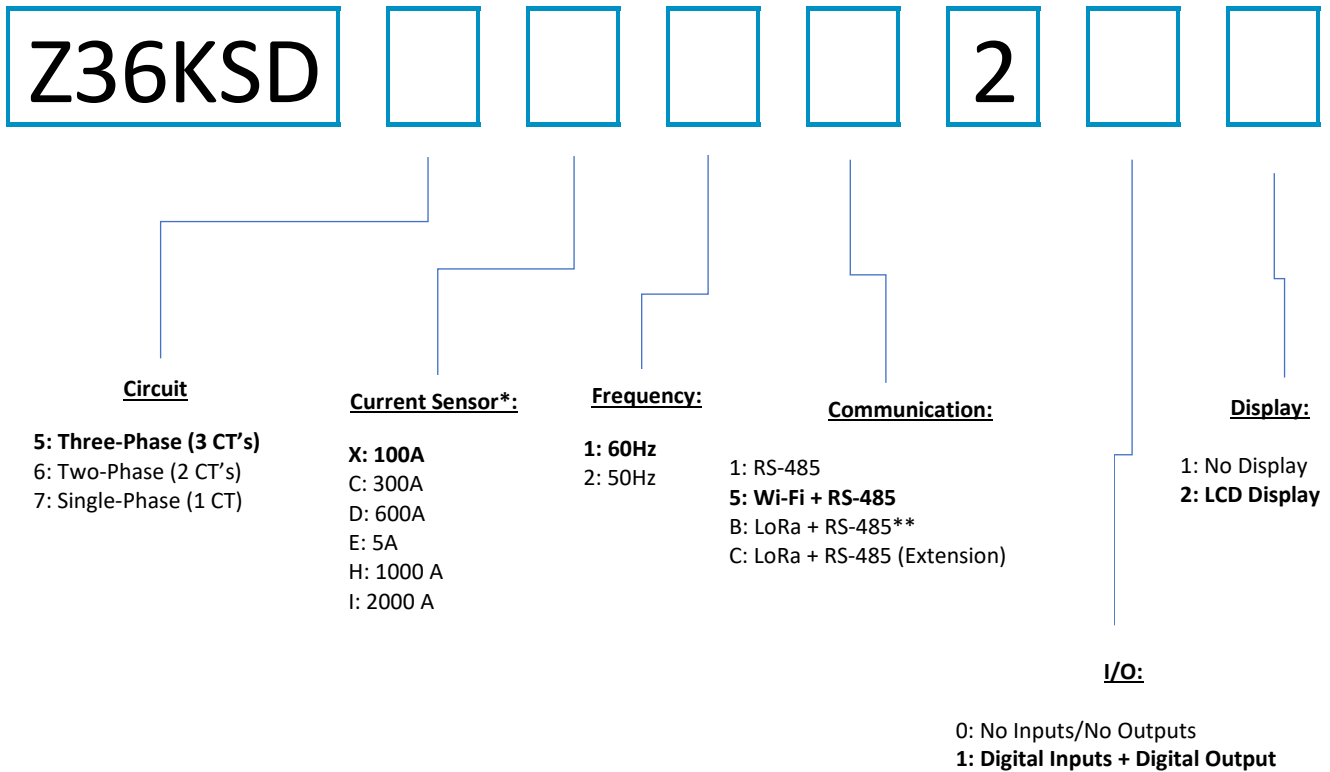


	A	B	C	D	E	F
Model						
5A	12,7	12,7	32,1	56,9	-----	21,1
100A	12,7	12,7	32,1	56,9	-----	21,1
300A	23,5	24,0	44,4	76,3	41,5	33,3
600A	36,0	36,0	56,7	92,6	48,4	39,8

1000A, 2000A



How to Specify:



*For other nominal currents or case formats, please contact technical support
 **Ordering upon consultation, please contact technical support

The bold signaled items indicate the standard options, which have higher stock availability.

Standard Model: (Example)

Z36KSD 5 X 2 5 2 1 2

KS-3000 {Three-Phase} {Split Core 100A} {Frequency 50Hz} {Wi-Fi and RS-485} {Digital Inputs + Digital Output} {Display}

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 For correct utilization of the product, the User Manual must be consulted before its installation or operation.
 Some items presented here may be optional, being necessary the correct product specification by their code.

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