



MULTIFUNCTION  
ANALYZER



CONSUMPTI



RS-485

### MULTIFUNCTION ANALYZER

- The **iKron-03 D** is an instrument conceived to measure electrical parameters in three-phase AC systems, such as energy consumption, current, voltage and others.
- Measurement readings can be obtained locally (through a LCD display) or remotely, using a RS-485 output for communication (Modbus-RTU protocol).
- With a very compact design and suited to Din rail fastening, iKron-03 D allows direct measuring of loads up to 80Aac.

### APPLICATIONS

- Submetering
- Electrical Parameters Checking
- Analog Instruments substitution in low cost submetering system

### BENEFITS

- True RMS
- Easy local reading
- Practical installing
- Direct Measurement up to 80Ac.a.

### PRODUCT INFO

#### ELECTRICAL PARAMETERS

- Includes True RMS measurements of current, voltage, frequency, active and reactive energies, energy demands, active, reactive and apparent powers, power factor and other parameters

#### INSTALLATION

- Very practical installing
- Panel's Background, 35 mm DIN Rail Fastening
- Technical support via e-mail, telephone, WhatsApp and YouTube videos

#### DISPLAY

- Type: LCD
- Resolução: 2 linhas x 12 colunas

#### DIRECT MEASUREMENT – 100 A

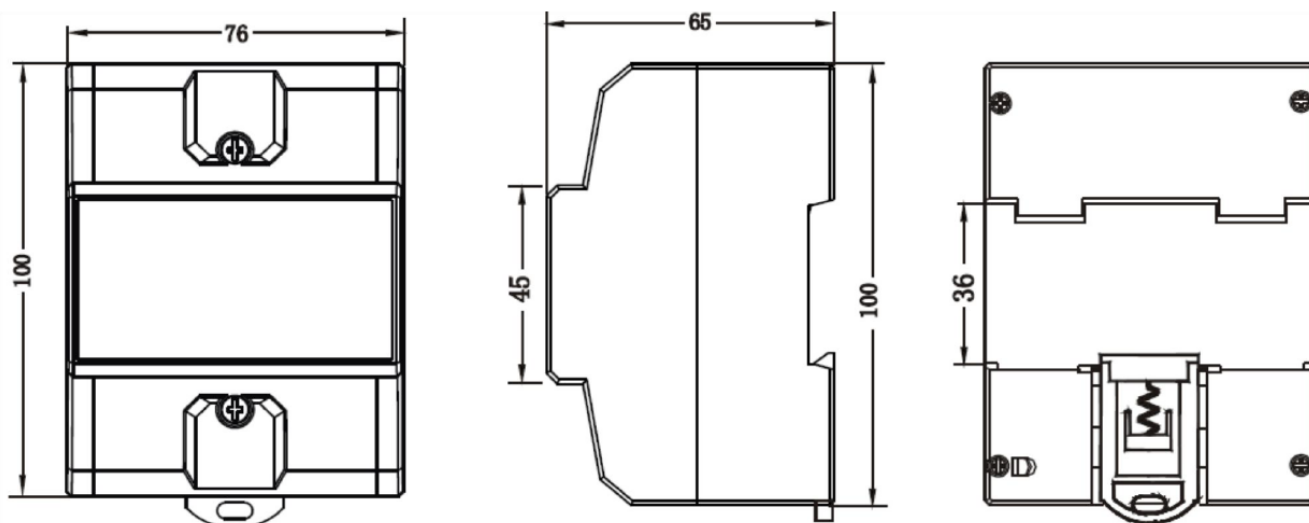
- Direct measurement of currents up to 100Aac, without requiring external current transformers

#### INTERFACES, READINGS & CONFIGURATIONS

- Man Machine Interface (MMI) composed of an LCD display and a navigation key, allowing easy local reading and configuration checking
- Software for reading and parameterization: RedeMB (RS-485 communication)
- Modbus-RTU protocol, allowing integration to PLCs, master MMIs, supervisory systems and data concentrators

<b>ELECTRICAL GREATNESSES</b>	<i>Instantaneous</i>	Voltage, Current, Frequency, Active, Reactive and Apparent Power, Power Factor
	<i>Energies</i>	±Active Energy kWh (Consumption and Supply) ±Reactive Energy VARh [Inductive and Capacitive Loads]
<b>MEASUREMENTS AND INPUT INFO</b>	<i>Connection Diagram</i>	Three-phase Star
	<i>Voltage – Working Range</i>	230/400Vac.– 90 to 110% of the nominal value
	<i>Current – Working Range</i>	500mA to 80Ac.a. (1.2Vmax overload)
	<i>Frequency – Working Range</i>	50/60Hz
	<i>Connection</i>	Terminal Blocks (IP-20)
	<i>Maximum Cable to be Used</i>	25mm <sup>2</sup>
	<i>Internal Consumption</i>	<0,5VA
<b>ACCURACY at 25°C (77 °F), referred to the full scale</b>	<i>Voltage, Current, Frequency, Powers, Power Factors</i>	0,5%
	<i>Energies</i>	1%
<b>COMMUNICATION</b>	<i>Connection/Protocol</i>	RS-485 - Modbus RTU
	<i>RS-485 Cabling</i>	Shielded cables, with at least two twisted pairs (2x24 AWG), minimum section of 0.25mm <sup>2</sup> and characteristic impedance of 120ohms
	<i>Transmission Speed</i>	9600bps
	<i>Data Format</i>	8E1
	<i>Addressing</i>	1 to 247 (configurable)
<b>PULSE OUTPUT</b>	<i>Parameters</i>	Energy
	<i>Type</i>	Open Collector
<b>DISPLAY</b>	<i>LCD (blue)</i>	2 lines x 12 columns
<b>ENCLOSURE</b>	<i>Material</i>	Thermoplastic
	<i>Mass</i>	0,4Kg
	<i>Protection Degree</i>	IP-51 (case) and IP-20 (electrical connections)
<b>ENVIRONMENTAL CONDITIONS</b>	<i>Temperature</i>	Operation: 0 to 60°C (32 to 140°F)
	<i>Relative Air Humidity</i>	Maximum of 85% (without condensation)
<b>STANDARDS</b>	<i>Electrical Parameters</i>	IEC62052-11 IEC62053-21

## DIMENSIONS



### How to Specify:



**Communication:**

1: RS-485 (Modbus RTU) + Pulse

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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.

**Kron Instrumentos Elétricos Ltda.**

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