



RS-485

## FEATURES

- **iKron DC** meters are digital instruments conceived to measure electrical parameters and process variables, through current and/or voltage inputs, signals obtained from field sensors such as shunts or transducers. The core concept of iKron DC line is to incorporate quality, accuracy, technology, sturdiness and friendly interface, making the installing and configuring processes easier.
- Measurement readings can be obtained locally (through a LED display, with 7 segments and 4 digits) or remotely, using a RS-485 output for communication with a supervision system (optional).
- Full scale and multiplicative constants can be configured to allow multiple measurement situations.

## APPLICATIONS

- Automation systems
- Usage in panels, machineries and equipment
- Analog instruments replacement
- Display of electrical parameters and process variables

## BENEFITS

- Completely configurable product, which facilitates its usage in multiple applications;
- User friendly interface;
- Configuration and readings performed via RS-485 output.

## PRODUCT INFO

### MULTIPLE SCALES/FUNCTIONS

- iKron DC can act as a meter for voltage (V, mV), current (A), temperature (°C), frequency (Hz,RPM), speed (m/min), active power (W), and a multitude of other functions, by using field sensors such as shunts and transducers, which are equipped with automation outputs like mAdc, mVdc or Vdc.

### USER INTERFACE AND PARAMETER READING

- Man Machine Interface (MMI) composed of a LED display and navigation keys, allowing local configuration and readings.
- Free software RedeMB, which allows remote reading via RS-485 network connection.
- Modbus-RTU protocol, allowing integration to PLCs, master MMIs, supervisory systems and data concentrators.

### INSTALLATION AND TECHNICAL SUPPORT

- Front Panel (overlap)
- Very easy to install
- Technical support using multiple channels - phone, e-mail, Whatsapp and videos

### COMMUNICATION

- RS-485 output (optional)

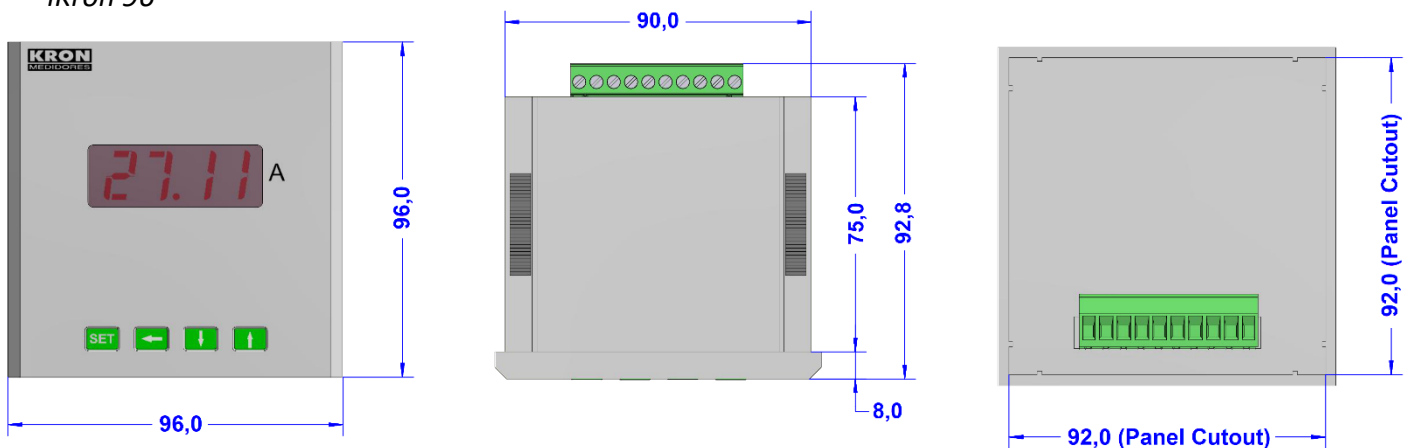
### DISPLAY

- High-bright red LED display, 4 digits and 7 segments

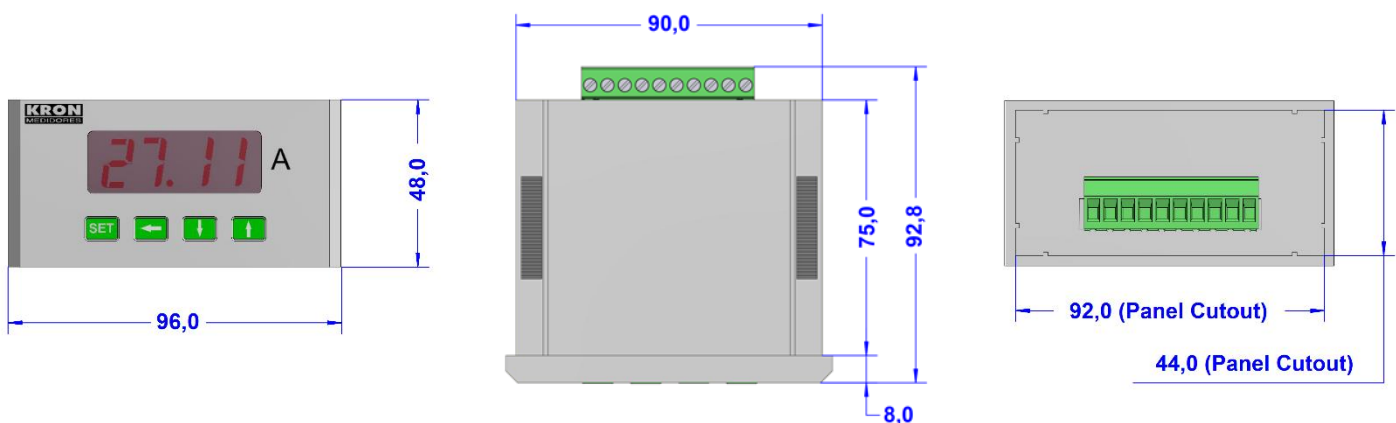
<b>POWER SUPPLY</b>	<i>Nominal Voltage – Working Range</i>	85-265Vac/Vdc 24Vdc (8 to 30 Vdc) 48Vdc (36 to 72 Vdc)
	<i>Internal Consumption</i>	< 5VA
<b>ACCURACY</b>	<i>The accuracy refers to the full scale (25°C, subject to the recommended ranges for voltage)</i>	0.5% + 1 digit
<b>COMMUNICATION</b>	<i>Output Type / Protocol</i>	RS-485 - Modbus RTU
	<i>RS-485 cabling</i>	Shielded cables, with at least two pathways (2x2 AWG), minimum section of 0.25 mm <sup>2</sup> and characteristic impedance of 120ohms.
	<i>Transmission speed</i>	9600 bps
	<i>Data Format</i>	8N1
<b>DISPLAY</b>	<i>Addressing</i>	1 to 247 (configurable)
	<i>LED</i>	High-bright red LED Display, 4 digits and 7 segments.
	<b>CASE</b>	<i>Material</i>
<b>ENVIRONMENTAL CONDITIONS</b>	<i>Mass</i>	0.2kg
	<i>Protection Degree</i>	IP-40
	<i>Operation Temperature</i>	0 to 50°C (32 to 122°F)
	<i>Relative Air Humidity</i>	Maximum of 85% (without condensation)

## DIMENSIONS

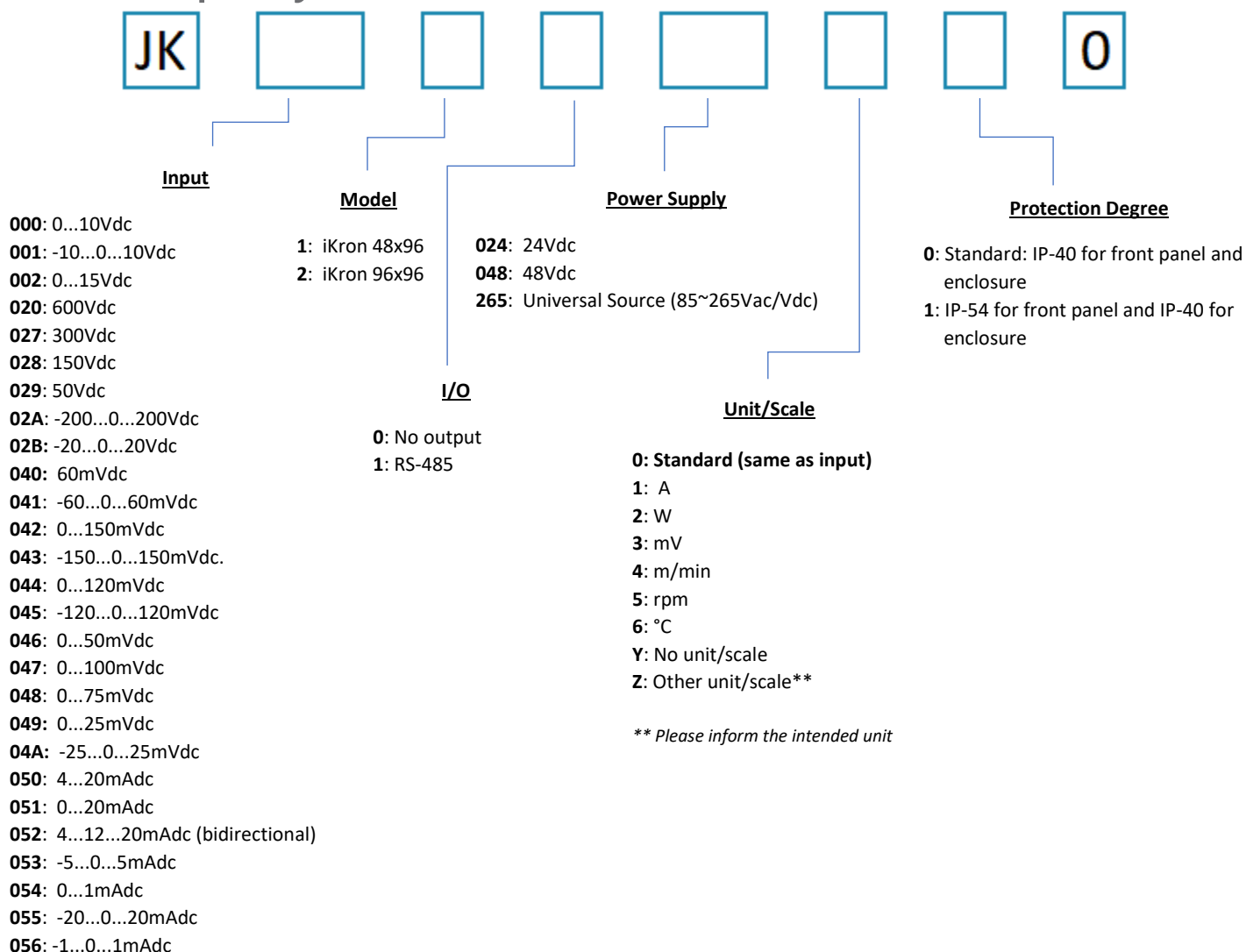
*iKron 96*



*iKron 48*



## How to Specify:



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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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