



CONSUMPTION



ENERGY



RS-485

FEATURES

- The **DC 96 PLUS** is a multimeter for electrical quantities in direct current (DC) systems, designed for panel door installation.
- Applicable to nominal voltage up to 60Vd.c. and use of 60mVd.c. shunt.
- Parameter readings and supervisory conditions can be performed locally, using the 7-segment LED display with 4 digits, or remotely (using the RS-485 interface).

APPLICATIONS

- Automation
- Cost allocation
- Energy efficiency
- Analysis of circuits and electrical equipment in direct current
- Cogeneration of Energy Systems (measurement of energy consumption and exportation of energy)
- Any application involving the measurement of electrical parameters in direct current

PRODUCT INFO

ELECTRICAL PARAMETERS (104 parameters)

- Includes Voltage, Current, Power, Positive Energy, Negative Energy, Total Energy, Positive Load, Negative Load, Total Load, Power Demand, Current Demand, and others.

INSTALLATION

- Panel Door
- Technical support via e-mail, telephone, WhatsApp, and YouTube videos.

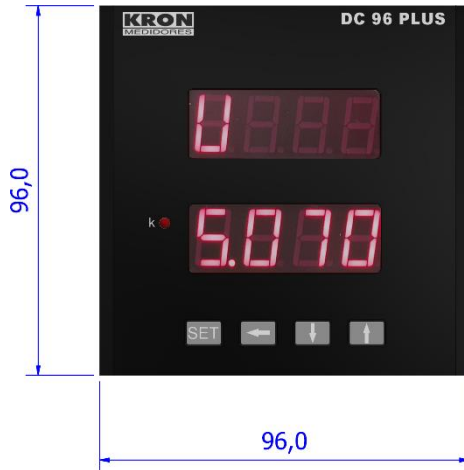
INTERFACES, READING & CONFIGURATIONS

- HMI composed of display (LED) and navigation keys, allowing local reading and configuration..
- RS-485 data output
- Free software for reading and configuration: RedeMB (RS-485)
- Incorporates Modbus-RTU protocol, allowing integration with PLCs, external HMIs, supervisory systems, and concentrators

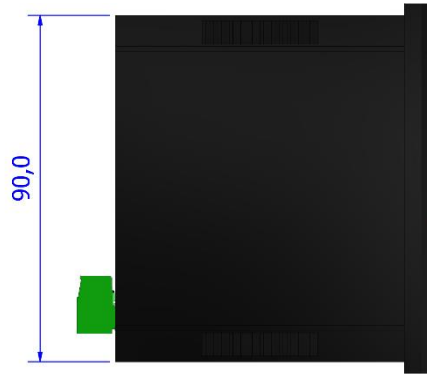
ELECTRICAL GREATNESSES	<i>Instantaneous</i>	Voltage, Current, and Power
	<i>Energy</i>	±Energy (Imported and Exported) Total Energy (Imported + Exported) ±Grid Energy ±Load (Imported and Exported) Total Load (Imported + Exported) ±Grid Load
	<i>Demand</i>	±Power Demand (Imported and Exported) ±Current Demand (Imported and Exported) ±Maximum Power Demand (Imported and Exported) ±Maximum Current Demand (Imported and Exported)
MEASUREMENTS AND INPUT INFO	<i>Voltage – Working Range</i>	Nominal: 60Vd.c. Operating Range: 2 to 60Vd.c. Overload: 1.1 x the nominal value
	<i>Current – Working Range</i>	Nominal: 60mVd.c. Operating Range: 2 to 60mVd.c. Overload: 1.1 x the nominal value
POWER SUPPLY	<i>Voltage – Working Range</i>	36-72Vd.c. (90 to 110% of the nominal value)
	<i>Internal Consumption</i>	< 5VA
ACCURACY at 25°C (77 °F), referred to the full scale	<i>Voltage and Current</i>	0,5%
	<i>Power and Energy</i>	0,5%
COMMUNICATION	<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 ² and characteristic impedance of 120ohms.
	<i>Transmission Speed</i>	9600 or 19200 (configurable)
	<i>Data Format</i>	8N1, 8N2, 8E1 or 8O1 (configurable)
	<i>Addressing</i>	1 to 247 (configurable)
DISPLAY	<i>LED (red)</i>	7 Segments – 4 digits x 2 lines, high brightness
CASE	<i>Material</i>	Thermoplastic
	<i>Mass</i>	0,2Kg
	<i>Protection Degree</i>	IP-40
ENVIRONMENTAL CONDITIONS	<i>Temperature</i>	Operation: -10 a 50 °C (14 to 122°F) Storage : -25 a 70 °C (-13 to 158°F)
	<i>Maximum Altitude</i>	3, 000 meters
	<i>Relative Air Humidity</i>	Maximum of 85% (without condensation)

DIMENSIONAL

Front View



Side View



How to Specify:

D06DD11101100

Standard Model: (Example)

D06DD 1 1 1 0 1 1 0 0

DC 96 Plus {Voltage Input: 60V DC} {Current Input: 60mV DC} {Power Supply: 36-72V DC}

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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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