



FEATURES

- The **Konect K** is an instrument conceived to measure electrical parameters in AC systems, such as energy consumption, current, voltage and 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.
- Measurement readings can be obtained locally (through a LED display, with 7 segments and 3 digits) or remotely, using a RS-485 output for communication.

APPLICATIONS

- Submetering and Energy Efficiency
- Automation Systems
- 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



MULTIFUNCTION
ANALYZER



CONSUMPTION



RS-485

PRODUCT INFO

ELECTRICAL PARAMETERS (104)

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

CONNECTION DIAGRAMS

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

INSTALLATION

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

INTERFACES, READINGS & CONFIGURATIONS

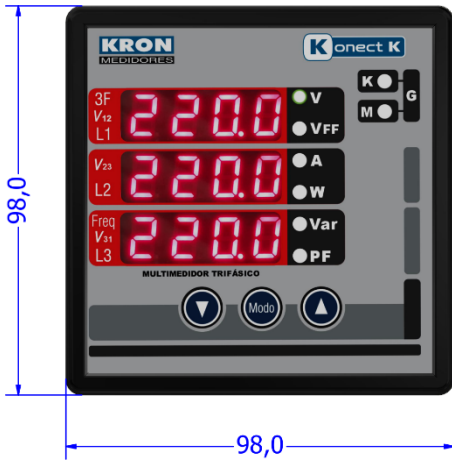
- Man Machine Interface (MMI) composed of displays (LED) and three navigation keys, allowing local reading and configuration
- RS-485 communication
- Software for reading and parameterization: RedeMB (RS-485).
- Modbus-RTU protocol, allowing integration to PLCs, master MMIs, supervisory systems and data concentrators
- It may include pulse output as an option, for remote reading of active or reactive inductive energy, using wired connection to external device inputs (CLPs, mechanical counters, etc.)

| | | |
|--|--|--|
| ELECTRICAL GREATNESSES | <i>Instantaneous</i> | Voltage (Ph-Ph, Ph-N and 3Ph), Current (Ph and 3Ph), Frequency, Active, Reactive and Apparent Power (Ph and 3Ph), Power Factor (Ph and 3Ph) |
| | <i>Energy</i> | ±Active Energy kWh (Consumption and Supply) ±Reactive Energy VARh [Inductive(+) and Capacitive (-) Loads] Active and Apparent Demand (Average and Maximum) Apparent Energy kVAh (Ph and 3Ph) Active, Reactive, and Apparent Power Demand (Last and Peak) Current Demand (Last and Peak) |
| MEASUREMENTS AND INPUT INFO | <i>Maximum and Minimum</i> | Voltage, Current, Frequency, Powers, Power Factor - (Ph and 3Ph) |
| | <i>Connections Diagrams</i> | Three-Phase (Star or Delta), Two-phase and Single-Phase |
| | <i>Voltage – Working Range</i> | 20 to 500Vac (Ph-Ph) [1.5 Vmax overload (1s)] |
| | <i>Current – Working Range</i> | 5A: 0,05 to 7,5Aac 100A: 0,3 to 100Aac (Split-Core) 300A: 0,3 to 300Aac (Split-Core) |
| | <i>Frequency – Working Range</i> | 45 to 65 Hz |
| | <i>Connection</i> | Quick coupling terminal or Lug Terminal (IP-00) |
| | <i>Maximum Cable to be Used</i> | 2.5mm ² for power supply and measurement inputs |
| POWER SUPPLY | <i>Internal Consumption</i> | < 0,5VA |
| | <i>Voltage</i> | 85-265Vac/100-350Vdc |
| ACCURACY at 25°C (77 °F), referred to the full scale | <i>Internal Consumption</i> | < 10VA |
| | <i>Voltage and Frequency</i> | 0,5% |
| | <i>Current, Powers, Power Factor, and Energy</i> | 0,5% for measurement in standard CTs 1% for measurement in Split Core and Bi-split CTs |
| SAMPLING | <i>Samples per cycle</i> | 256 |
| | <i>Reading interval</i> | 600ms |
| 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> | RS-485: 9600 or 19200 (configurable) |
| | <i>Addressing / Data Format</i> | 1 a 247 8N1, 8N2, 8E1 or 8O1 (configurable) |
| DISPLAY | <i>LED</i> | 4 Dígitos x 3 Lines |
| CASE | <i>Material</i> | Thermoplastic |
| | <i>Mass</i> | 0,5 Kg |
| | <i>Protection Degree</i> | IP-40 |
| ENVIRONMENTAL CONDITIONS | <i>Temperature</i> | <i>Operation</i> : -10 a 60 °C <i>Storage</i> : -25 a 60 °C |
| | <i>Relative Air Humidity</i> | Maximum of 85% (without-condensation) |
| STANDARDS | <i>Electrical Parameters</i> | IEC 61000-4-2 IEC 61000-4-3 IEC 61000-4-4 IEC 61000-4-5 IEC 61000-4-6 IEC 61000-4-8 IEC 61000-4-11 CISPR 11 |

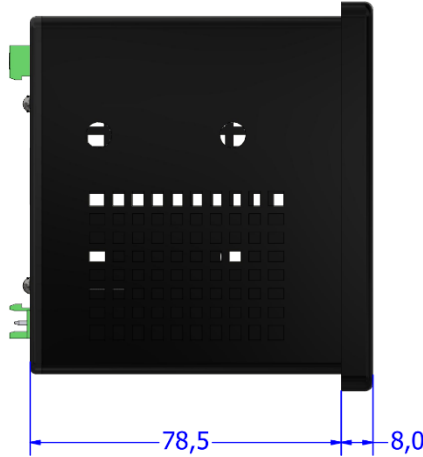
- For further information, see User Manual

DIMENSIONS

Vista Frontal



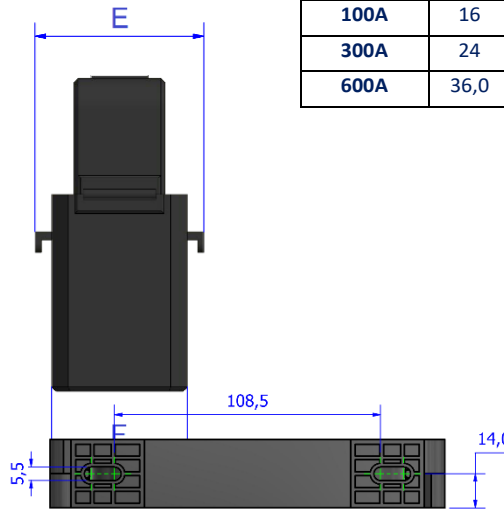
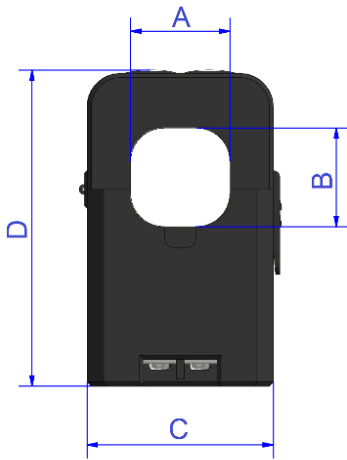
Vista Lateral



Corte de Panel

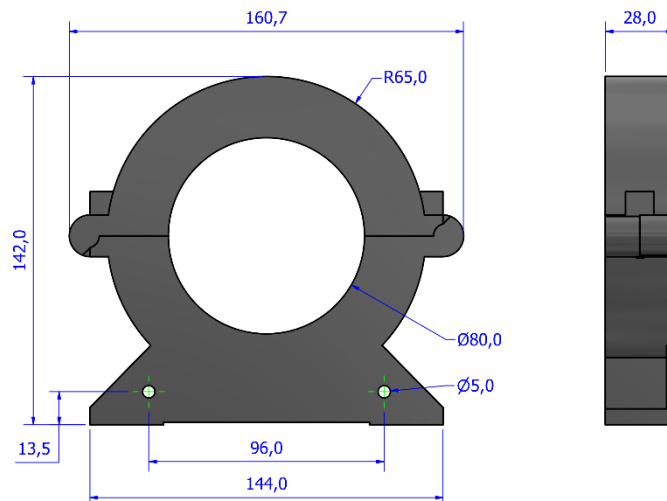


Split Core



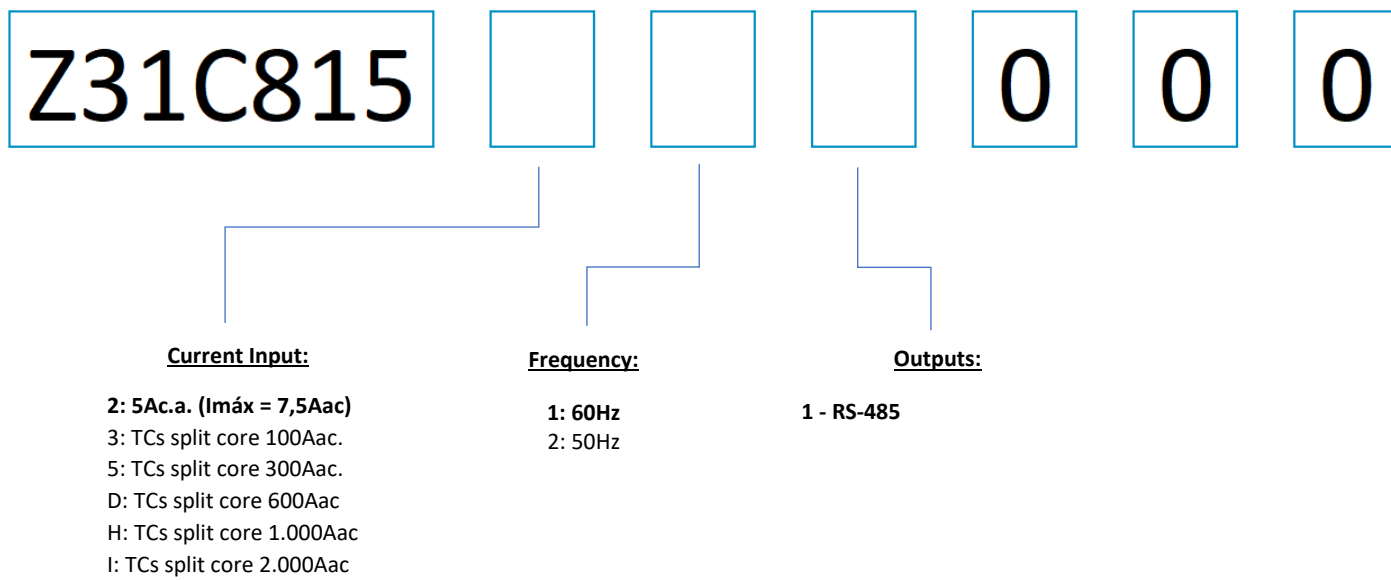
| | A | B | C | D | E | F |
|--------------|------|------|------|------|------|------|
| Model | | | | | | |
| 100A | 16 | 16 | 29,5 | 55 | 31 | 31 |
| 300A | 24 | 24 | 45 | 74,5 | 34 | 34 |
| 600A | 36,0 | 36,0 | 56,7 | 92,6 | 48,4 | 39,8 |

1000A, 2000A



Dimensions in millimeters

How to Specify:



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

Standard Model: (Example)

Z31C815 **2** **1** **1** **0** **0** **0**

Konect K {5Ac.a} {Frequency 60Hz} {RS-485 Output}

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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 Eléctricos Ltda.

Rua Alexandre de Gusmão, 278 - São Paulo, SP | Brasil

Tel: 55 (11) 5525-2000 | www.kron.com.br | suporte@kron.com.br | vendas@kron.com.br