



FEATURES

- The **Analog Power Transducers** are instruments conceived to measure power in AC systems and retransmit a proportional value by means of an analog output
- Applicable either on low, mid or high voltage, single-phase or three-phase systems, since it is possible to connect them to potential and/or current transformers and choose the intended connection diagram during the ordering process
- Available in three different versions: **W30/WA**, for active power measurement (Watt), **W31/RA**, for reactive power measurement (Var) and **W32/WR**, for both active and reactive power measurements, two distinct and isolated outputs

APPLICATIONS

- Conversion of measured power values into analog DC signals, using automation standards accepted by PLC's, digital indicators, controllers and other related instruments
- Signal Isolation
- Protection of general electrical machinery

PRODUCT INFO

MULTIPLE END APPLICATIONS

- Several options for inputs and outputs, suited for the most varied applications in automation systems
- Three distinct models: active power, reactive power or active and reactive power, including the possibility of bidirectional measurements (upon consultation)

INSTALLATION AND ENCLOSURE

- Panel's Background, Side Screws Fastening
- Connection – Lug terminals
- Robust enclosure (IP -40)

ISOLATION

- 2kV between inputs and outputs (60Hz, 1 minute)

ANALOG OUTPUT

- Response time: < 400ms
- Output Ripple: < 0.5%
- Output values and maximum (current output) or minimum (voltage output) admissible resistances:

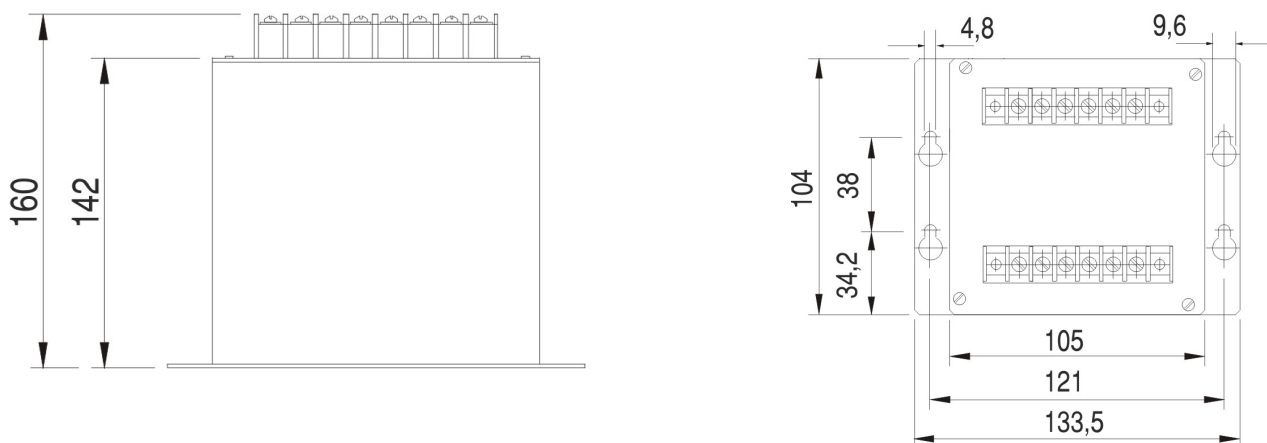
4...20mAcd (0...750Ω)	0...10mAcd (0...1kΩ)
0...20mAcd (0...750Ω)	0...1Vdc (1kΩ - minimum value)
0...1mAcd (0...10kΩ)	0...5Vdc (1kΩ - minimum value)
0...5 mAcd (0...2kΩ)	0...10Vdc (2kΩ - minimum value)

GAUGE FACTOR

- The power transducers, by default, are produced using full-scale values matching the maximum active or reactive power admitted to the intended measured system. Optionally, the user can specify a gauge factor, ranging from 0,5 to 1,2, so that the full scale output can match a different value from the maximum calculated

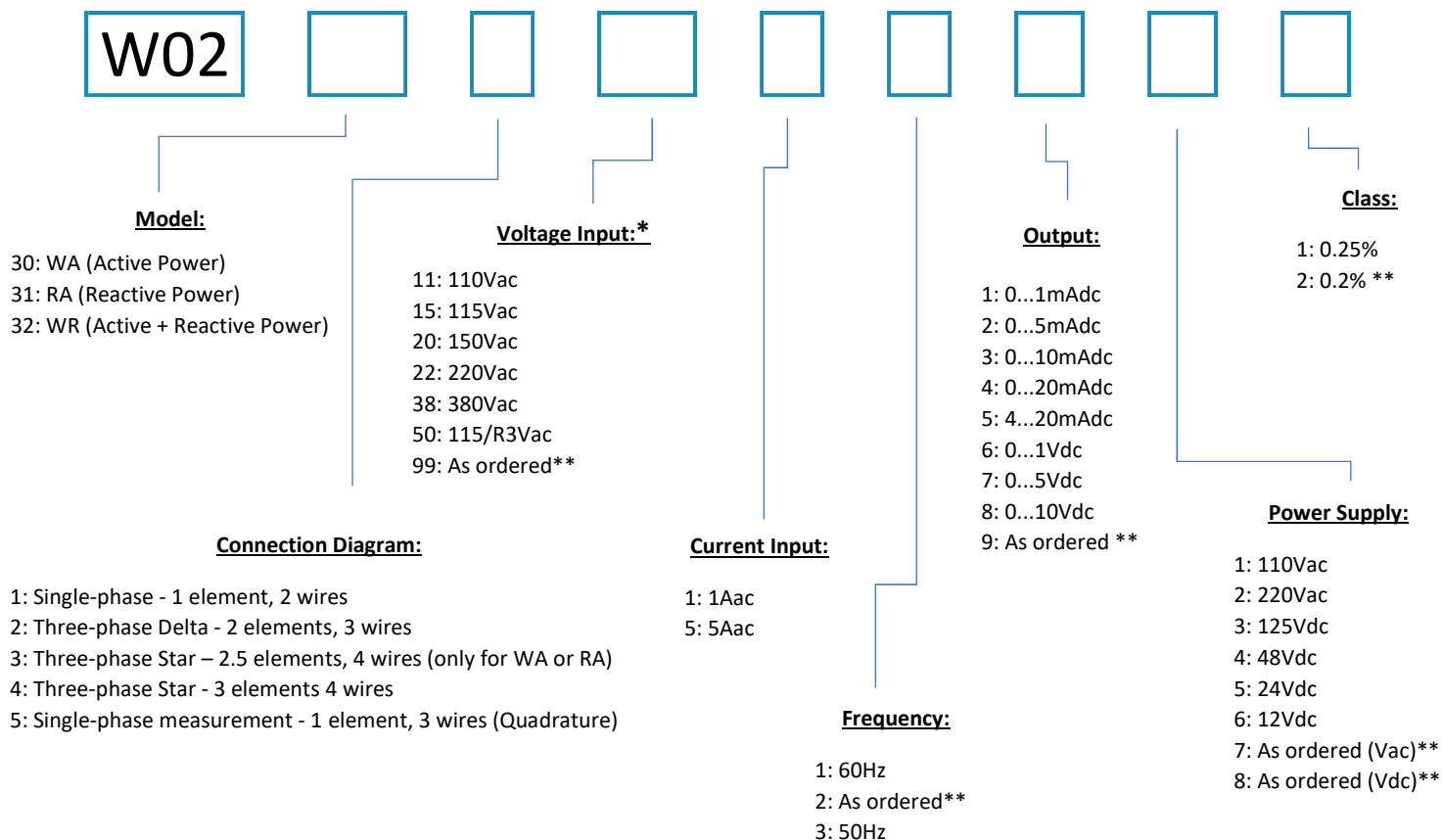
MEASUREMENTS AND INPUT INFO	<i>Connections Diagrams</i>	Three-Phase (Star or Delta) or Single-Phase
	<i>Voltage Input – Working Range</i>	Up to 380Vac / 80 to 120% of nominal value
	<i>Current Input – Working Range</i>	1Aac or 5Aac / 10 to 110% of nominal value
	<i>Continuous Overload (Voltage / Current)</i>	1,2 x Nominal Voltage / 1,5 x Nominal Current
	<i>Connection</i>	Lug Terminal (IP-00)
	<i>Maximum Cable to be Used</i>	Measurement inputs and power supply: 4mm ² (Recommended 2.5mm ²) Output: depends on the distance and impedance of the instruments that will be connected to it, check admittable resistances info for each case
	<i>Frequency</i>	50 or 60Hz
ACCURACY at 25°C (77 °F), referred to the full scale	<i>Internal Consumption</i>	< 0.5VA for both inputs
	<i>Power</i>	0.25%
POWER SUPPLY	<i>Voltage</i>	12Vdc (90 to 120% of nominal value) 24, 48 or 125Vdc (80 to 120% of nominal value) 110 or 220Vac (85 to 115% of nominal value)
	<i>Internal Consumption</i>	< 5VA
CASE	<i>Material</i>	High-resistance extruded aluminum enclosure
	<i>Mass</i>	0.5kg
	<i>Protection Degree</i>	IP-40
ENVIRONMENTAL CONDITIONS	<i>Operation/Storage Temperature</i>	-10 to 60°C (14 to 140 °F) -25 to 60°C (-31.667 to 140 °F)
	<i>Relative Air Humidity</i>	Maximum of 95% (without-condensation)
	<i>Temperature Coefficient</i>	0.01%/°C

DIMENSIONS



Dimensions in millimeters

How to Specificy:



NOTE:

* Always inform Phase-to-phase Voltage. The only exception are single-phase (1 element – 2 wires) models.

** Please consult technical support to check availability for a particular value/signal.

Standard Model (Example):

W02 30 4 38 5 3 5 3 1

Transducer {WA – Active Power} {Star - 3 elements 4 wires} {380Vac} {5Aac} {50Hz} {Output 4...20mAdc} {Power Supply 125Vdc} {Class 0.25%}

©2020 Kron Instrumentos Ltda - The information contained in this technical sheet is subject to changes without previous notice.
 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.

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

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