



FEATURES

- The **Analog Frequency Transducers** are instruments conceived to measure voltage in AC systems and calculate its frequency, converting and transmitting the obtained values proportionally, by means of an analog output
- The measurement concept of frequency transducers is based on zero crossing techniques

APPLICATIONS

- Conversion of frequency 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.

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: < 1.0%
- Output values and maximum (current output) or minimum (voltage output) admittable resistances:

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

| MEASUREMENTS AND INPUT INFO | Connections Diagrams | |
|---|-------------------------------|---|
| | | Voltage Input – Working Range |
| | Connections | 220Vc.a. / ± 20% do valor nominal |
| | Maximum Cable to be Used | Lug Terminals (IP-00) |
| | Frequency Range (measurement) | Measurement inputs and power supply: 4mm ² (Recommended 2.5mm ²) Output: depends on the combined impedance of cabling (distance related) and of the instruments that will be connect to the transducer, check admittable resistances info for each output type. |
| | Internal Consumption | 55 to 65 Hz (default), other frequency ranges available |
| ACCURACY at 25°C (77 °F), referred to the full scale | Frequency | 0.3 VA |
| | | 0.1% |
| POWER SUPPLY | Voltage | 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) |
| | Internal Consumption | < 3.5VA |
| CASE | Material | High mechanical resistance extruded aluminum enclosure |
| | Mass | 0.5kg |
| | Protection Degree | IP-40 |
| ENVIRONMENTAL CONDITIONS | Operation/Storage Temperature | 0 to 50°C (32 to 122 °F) -10 to 60°C (14 to 140 °F) |
| | Relative Air Humidity | Maximum of 90% (without-condensation) |
| | Temperature Coefficient | 0.01%/°C |

DIMENSIONS



Dimensions in millimeters

How to Specify:

| | | | | | | | | |
|---------------|---|--|--|--|---------|---------------|--|--|
| W03 | | | | 0 | 0 | | | |
| Model: | Frequency Range: | Nominal Voltage: | Output: | Power Supply: | | Class: | | |
| 50: Frequency | 1: 55...65Hz 2: 45...55Hz 3: 45...65Hz 4: 20...100Hz 5: 20...200Hz 6: 20...500Hz 7: 59...61Hz 9: As ordered* | 11: 110Vac 15: 115Vac 22: 220Vac | 1: 0...1mA _d c 2: 0...5mA _d c 3: 0...10mA _d c 4: 0...20mA _d c 5: 4...20mA _d c 6: 0...1V _d c 7: 0...5V _d c 8: 0...10V _d c 9: As ordered * | 1: 110Vac 2: 220Vac 3: 125V _d c 4: 48V _d c 5: 24V _d c 6: 12V _d c 7: As ordered (Vac)* 8: As ordered (V _d c)* | 4: 0.1% | | | |

NOTE:

* Please consult technical support to check availability for a particular range/output/power supply.

Standard Model: (Example)

W03 50 2 22 0 0 5 3 4

Transducer {Frequency} {Frequency Range: 45...55Hz} {Voltage Input: 220Vac} {Output: 4...20mA_dc} {Power Supply: 125V_dc} {Class: 0.1%}

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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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