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# ROCHESTER

## Analog Power Transducers

Power measurement for control, monitoring and data acquisition



### ANALOG POWER TRANSDUCERS

AMETEK Power Instruments offers a wide range of Rochester Analog Power Transducers for meeting all of your power measurement needs. The transducers consist of two families of products; the Process and Ultra series. Each one is designed to provide an exact fit for your monitoring application.

The Process Transducers are ideally suited for industrial applications, with a wide selection of input current and voltages, multiple analog output choices, and a wide range of power supply options. The Ultra Transducers work best for utility applications in generation, transmission and distribution with their industry standard footprint and wiring connections. The Ultra Transducers come with UL approval and the most popular input and output selections.

Together, we have the widest selection of transducers available, making it easy to choose the one that best fits your needs.

#### **Other Power Transducers available from AMETEK Power Instruments:**

##### **Rochester Analog Power Transducers**

- Utility Transducers
  - Utility standard footprint and wiring connections

##### **Scientific Columbus Analog Power Transducers**

- DL Transducers
  - Highest Accuracy available (0.1% of reading)
- XL Transducers
  - High Accuracy, wide range of measurements
- XLG Transducers
  - Compact packaging
  - UL recognized

# AMETEK

POWER INSTRUMENTS



#### **Digital Power Transducers**

- DPMS
  - 34 power measurements
  - Software Configurable, any circuit type
  - Analog & Digital Outputs
  - RS-232/485 communications with Modbus and DNP
- DPMS-PM
  - Same as above, but with digital display

#### **FEATURES AND BENEFITS**

- Broad family of products
- Direct drop-in replacements for older models
- Field proven reliable design
- Models for any circuit type, input, output and power

## SPECIFICATIONS

### Process Transducers

Transducer Functions and Models

|               |                      |
|---------------|----------------------|
| Voltage       | (VCC-1B, VCC-30B)    |
| Current       | (CCC-1B, CCC-30B)    |
| Watts         | (PCE-15, 20, 25, 30) |
| VARs          | (VCE-15, 20, 25, 30) |
| Watt / VAR    | (WV-15, 20, 25, 30)  |
| Watt hour     | (WWH-15, 20, 25, 30) |
| VAR hour      | (VVH-15, 20, 25, 30) |
| Power Factor  | (PFN-1B)             |
| Phase Angle   | (PFA-1B)             |
| Voltage Angle | (PAN-1B)             |
| Frequency     | (FCN, FCX)           |

### Features and Options Available

- Circuit Type
  - 1-1/2, 2, 2-1/2, or 3 element
- Voltage Input Ranges
  - 85-150, 170-300, 300-550, 50-90 VAC
- Current Input Ranges
  - 0-1, 0-2, 0-5, 0-10 Amps
- Power Input
  - Self powered
  - External: 120, 240, or 480 VAC
- Analog Outputs
  - 0-1, 0-5, 0-10, 0-20, 4-20, 4-12-20 mA
  - DC voltage outputs
- Frequency
  - 50, 60, 400 Hz
- Calibration Adjustments
  - Standard +10% adjustment
  - W1: 50-125% adjustment
  - W2: 75-200% adjustment
  - Certain selections are not available with each model type
- Surge Withstand
  - ANSI C37.90.1-1974 and BEAMA No. 219
- High Accuracy
  - 0.25% accuracy full scale

### Ultra Transducers

Transducer Functions & Models

|            |                      |
|------------|----------------------|
| Voltage    | (UltV10, 30)         |
| Current    | (UltA10, 30)         |
| Watts      | (UltW10, 20, 25, 30) |
| VARs       | (UltR10, 20, 25, 30) |
| Watt / VAR | (UltC10, 20, 25, 30) |

### Features and Options Available

- Circuit Type
  - 1-1/2, 2, 2-1/2, or 3 element
- Voltage Input Ranges
  - 0-150, 0-300 VAC
- Current Input Ranges
  - 0-5, 0-10 Amps
- Power Input
  - Self powered
  - External: 120 VAC
- Analog Outputs
  - 0-1, 4-20, 4-12-20 mA
  - Certain selections are not available with each model type
- Surge Withstand
  - ANSI 37.90.1-1989
- High Accuracy
  - 0.20% rated output for volts and current
  - 0.10% reading + 0.05% rated output for Watts, VARs (0-1 mA)
  - 0.20% of rated output for Watts, VARs (4-20 mA)

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