



Rochester Analog Power Transducers

Power Measurement for Control, Monitoring and Data Acquisition

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

Digital Power Transducers

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

FEATURES AND BENEFITS

1

Broad family of products

2

Direct drop-in replacements for older models

3

Field proven reliable design

4

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 & 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, 4-12-20 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 AND MODELS

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

FEATURES & 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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POWER INSTRUMENTS

REV 04/2026