



ORDERING INFORMATION

VOLTAGE & CURRENT MONITORING

Real-time voltage and current is measured with an array of high-accuracy, loop-powered voltage and current transducers. Applications include motor current, station battery voltage, heater current, and compressor run-time.

CURRENT TRANSFORMER PICKUP COIL

Current transformer pickup coils enable the Optimizer3 to measure real-time current flow in the bushing current transformer secondaries. The split-core design allows the pickup coils to be applied to secondaries of bushing current transformers without disassembling or disconnecting the cabling for fast and convenient installation. They are available in eight current ranges to accommodate all applications.



Model	Description
CT-20	Current transformer pickup coil, 20 Amps
CT-30	Current transformer pickup coil, 30 Amps
CT-50	Current transformer pickup coil, 50 Amps
CT-100	Current transformer pickup coil, 100 Amps
CT-160	Current transformer pickup coil, 160 Amps
CT-250	Current transformer pickup coil, 250 Amps
CT-400	Current transformer pickup coil, 400 Amps
CT-800	Current transformer pickup coil, 800 Amps

Specifications

- Current sensors are specifically designed for use with Optimizer CT input circuitry
- Includes 8' wire lead
- Accuracy greater than 1%

AC VOLTAGE TRANSDUCER

The AC voltage transducer is a loop-powered Voltage Transducer for measuring alternating current. It accurately converts measured AC voltage to a 4-20 milliamp signal, which can be monitored by the Optimizer3.



Model	Description
OM-ACVT	AC voltage transducer

Specifications

- Input voltage range: 0 - 480 VAC
- Voltage accuracy: +/-1% of full scale
- Power supply voltage: 18 - 24 volts DC
- Isolation: 2,500 volts



AC CURRENT TRANSDUCER

The AC current transducer is a loop-powered, split-core current transducer for measuring 50/60Hz alternating current. This transducer accurately converts measured AC current to a 4-20 milliamp signal, which can be monitored by the Optimizer3.



Model	Description
OM-ACCT	AC current transducer

Specifications

- Selectable input current range: 0 - 10, 0 - 20, and 0 - 40 amps
- Power supply voltage: 12 - 30 volts DC
- Current accuracy: +/-2% from 10% to 100% of full scale

AC LOW-CURRENT TRANSDUCER

The AC low-current transducer is a loop-powered current transducer for measuring 50/60Hz alternating current. This transducer accurately converts measured AC current to a 4-20 milliamp signal, which can be monitored by the Optimizer3.



Model	Description
OM-ACLCT	AC low-current transducer

Specifications

- Selectable input current range: 0 - 2, 0 - 5 amps
- Power supply voltage: 15 - 40 volts DC
- Current accuracy: +/-2% of full scale in the low current range
+/-1% of full scale in the high current range

DC VOLTAGE TRANSDUCER

The DC voltage transducer is a loop-powered voltage transducer which accurately converts measured DC voltage to a 4-20 milliamp signal, which can be monitored by the Optimizer3.



Model	Description
OM-DCVT	DC voltage transducer

Specifications

- Voltage range: 0 - 150 VDC
- Power supply voltage: 12 - 32 volts DC
- Voltage accuracy: +/-0.1% of full scale (+/-0.15 volts)



DC CURRENT TRANSDUCER

The DC current transducer is a loop-powered current transducer for measuring direct current. This transducer accurately converts measured direct current to a 4-20 milliamp signal, which can be monitored by the Optimizer3.



Model	Description
OM-DCCT	DC current transducer

Specifications

- Selectable current input range: 0 - 5, 0 - 10, 0 - 20 & 0 - 40 amps
- Power supply voltage: 8 - 28 volts DC
- Current accuracy: +/-0.5% of full scale
- Output circuit isolation: 1,000 volts DC

TEMPERATURE SENSOR

The temperature sensor is a loop-powered sensor which accurately converts the measured temperature to a 4-20 milliamp signal, which can be monitored by the Optimizer3.



Model	Description
OM-TS	TempSense temperature sensor

Specifications

- Selectable input current range: 0 - 10, 0 - 20, and 0 - 40 amps
- Power supply voltage: 12 - 30 volts DC
- Current accuracy: +/-2% from 10% to 100% of full scale
- Temperature range: -40 °C to 120 °C

