

Cryogenic Temperature Transmitters

For CY7 Series Diode Sensor and Platinum RTD Elements

CYTX231 Series Starts at

\$730



- ✓ Models for Silicon Diode or Platinum RTD Elements
- ✓ Accuracy ± 0.07 K at 4.2 K Factory Calibration in Memory
- ✓ Input Fully Isolated from Power Supply
- ✓ 4 Lead Measurement
- ✓ Multiple Temperature Range
- ✓ Linearized Temperature Output

The CYTX231 temperature transmitters send linearized data to a remote location for a data acquisition system or a recorder using a 4 to 20 or 0 to 20 mA signal. Standard Curve #10 chart shown in the T section is in memory for the silicon diode sensor and excitation of 10 μ A is provided.

The CYTX231P operates like the CYTX231SD but uses a 100 Ω platinum RTD sensor. Excitation provided is 500 μ A and a DIN 437600 standard curve is provided in memory. The CYTX231 Series must be used with CYTX-ENCLOSURE-12.

Specifications

Inputs: 1

Measurement Type: 4-lead differential

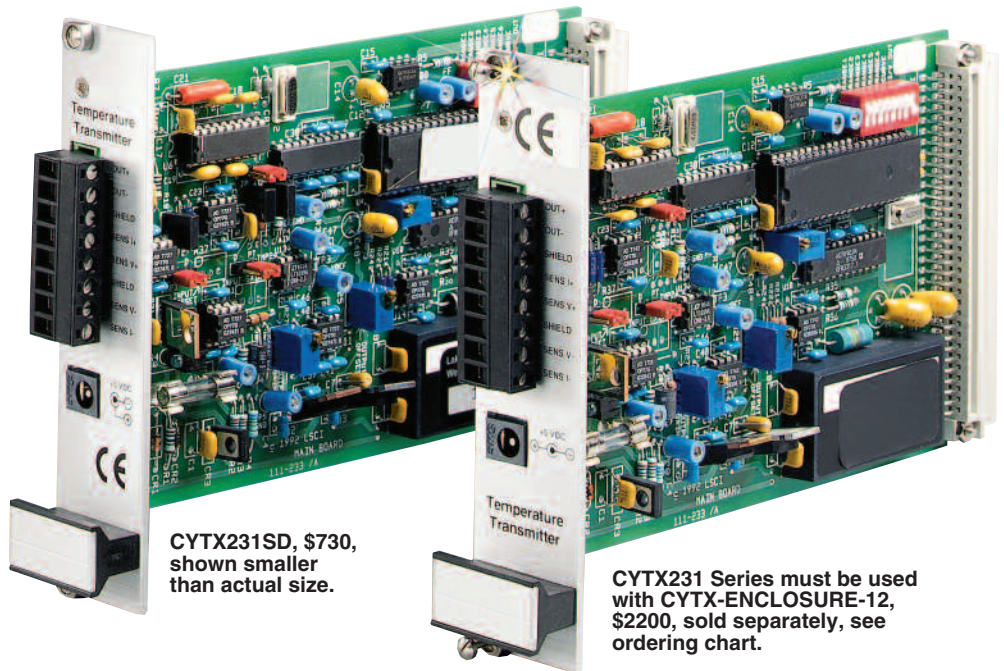
Sensor: CYTX231SD, CY7 silicon diode, CYTX231P, 100 Ω Platinum RTD
Sensor Excitation:

CYTX231SD, 10 μ A $\pm 0.1\%$ DC current;

CYTX231P, 500 μ A $\pm 0.02\%$ DC current

Response Time: 5 readings per sec

Sensor Range: CYTX231SD, 1.4 to 475 K, CYTX231P, 30 to 800 K



CYTX231SD, \$730, shown smaller than actual size.

CYTX231 Series must be used with CYTX-ENCLOSURE-12, \$2200, sold separately, see ordering chart.

Electronic Accuracy: CYTX231SD, ± 0.07 K at 4.2 K; CYTX231P ± 0.15 K at 77 K

Output Range:

4 to 20 mA, 0 to 20 mA, 0 to 10V with 500 Ω , 0.02%, 25 PPM Resistor

Selectable Temperature Ranges:

6 from 0-20 to 0-1000 K

Power: +5 (± 0.25) Vdc (500 mA); 2.5 W

Size: 100 x 160 x 30.5 mm (3.9 x 6.3 x 1.2")

Weight: 0.25 kg (0.55 lb)



OMEGACARESM extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARESM covers parts, labor and equivalent loaners.

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)		
Model No.	Price	Description
CYTX231SD	\$730	Transmitter for CY7 silicon diode, 5 Vdc power
CYTX231P	800	Transmitter for Platinum RTD, 5 Vdc power
CYTX-ENCLOSURE-12	2200	Enclosure for twelve 5 Vdc transmitters, in any combination silicon diode or RTD input with built-in 85 to 265 Vac power
CYTX231SD-115	795	Transmitter for CY7 silicon diode, 115 Vac power with single enclosure
CYTX231SD-230	820	Transmitter for CY7 silicon diode, 230 Vac power with single enclosure
CYTX231P-115	800	Transmitter for Platinum RTD, 115 Vac power with single enclosure
CYTX231P-230	820	Transmitter for Platinum RTD, 230 Vac power with single enclosure
CYTX-PANEL*	18	Blank panel for CYTX-ENCLOSURE-12

* The sum of transmitters and blank panels must add to 12 for CYTX-ENCLOSURE-12.

Each transmitter comes complete with sensor output mating connector, 500 Ω resistor, and operator's manual.

Note: Units are calibrated at no additional cost.

Ordering Examples: CYTX231SD-115, transmitter for silicon diode with 115 Vac powered wall mount plus enclosure for one transmitter, \$795.

CYTX231P-115, transmitter for platinum RTD, 115 Vac power, \$800. OCW-3, OMEGACARESM extends standard 1-year warranty to a total of 4 years (\$199), \$800 + 199 = \$999.



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• Flow and Level

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• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

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• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters