

Cryogenic Temperature Transmitters

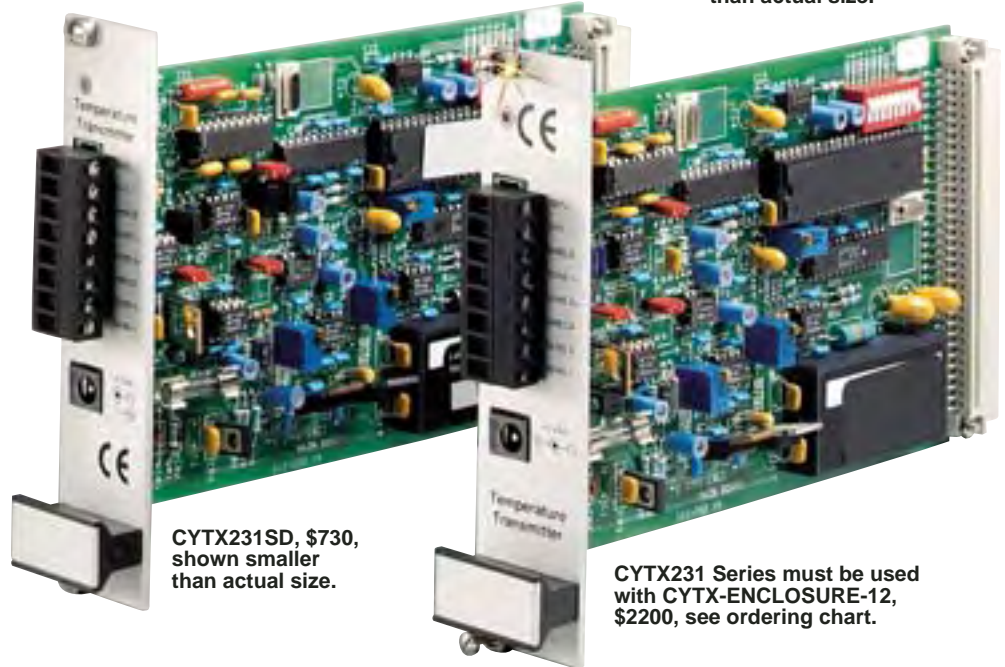
For CY7 Series Diode Sensor and Platinum RTD Elements



Both models shown smaller than actual size.

CYTX231 Series Starts at

\$730



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

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

- ✓ 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

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)

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, \$795. OCW-3, OMEGACARESM extends standard 1-year warranty to a total of 4 years (\$199), \$795 + 199 = \$994.

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• Flow and Level

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