## **Cryogenic Temperature Transmitters**

For CY7 Series Diode Sensor and Platinum RTD Elements





- 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  $\mu$ A is provided.

The CYTX231P operates like the CYTX231SD but uses a 100  $\Omega$  platinum RTD sensor. Excitation provided is 500  $\mu$ A and a DIN 437600 standard curve is provided in memory.

## Specifications Inputs: 1

Measurement Type: 4-lead differential Sensor: CYTX231SD, CY7 silicon diode, CYTX231P, 100  $\Omega$  Platinum RTD Sensor Excitation:

CYTX231SD, 10  $\mu$ A ±0.1% DC current; CYTX231P, 500  $\mu$ A ±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,  $\pm 0.07$  K at 4.2 K: CYTX231P  $\pm 0.15$  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)



OMEGACARE<sup>™</sup> extended warranty program is available for models shown on this page. Ask your sales respresentative for full details when placing an order. OMEGACARE<sup>™</sup> covers parts, labor and equivalent loaners.

## **To Order**

Model No.	Description
CYTX231SD	Transmitter for CY7 silicon diode, 5 Vdc power
CYTX231P	Transmitter for Platinum RTD, 5 Vdc power
CYTX231SD-115	Transmitter for CY7 silicon diode, 115 Vac power
CYTX231SD-230	Transmitter for CY7 silicon diode, 230 Vac power
CYTX231P-115	Transmitter for Platinum RTD, 115 Vac power power
CYTX231P-230	Transmitter for Platinum RTD, 230 Vac power power

Each transmitter comes complete with sensor output mating connector, 500  $\Omega$  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.

**CYTX231P-115,** transmitter for platinum RTD, 115 Vac power. **OCW-3,** OMEGACARE<sup>SM</sup> extends standard 1-year warranty to a total of 4 years.