Cryogenic Digital Thermometers

For CY7 Series Diode Sensors and Platinum Resistance Devices







CYD202D

Model CYD218E

Eight Inputs

- ✓ Single, Dual or **Eight Channel Input**
- ✓ For Use With CY7 Series Silicon Diode or Platinum **RTD Sensors**
- Sensor Excitation 10 µ Amps
- ightharpoonup Displays K, °C, V, Ω

CYD218

- ✓ Range 1.4 to 800 K
- Serial Interface
- Alarms





The CYD200 Series units are digital thermometers for use with Silicon

Diode Sensors. The CYD201 has one input and display. The CYD202S has two inputs and one display with a front panel switch to select the input desired. The CYD202D offers simultaneous displays for each of 2 inputs.

The CYD218 Series has similar specifications to the CYD202 Series with

the addition of eight simultaneous displays for Silicon Diodes or Platinum Resistance detectors and RS-232 interface, 16 high/low alarms, latching

Unlike a thermocouple, the two lead wire in a diodé measurement is not an active component of the sensor resulting in greater accuracy.

or non-latching relays, datalogging with memory, printer output.

CYD201A Series

Model CYD201A

Basic Unit

Feature Chart - CYD200 Series										
			Inputs			Analog		Latching/		
				Platinum		Output		Non		
Model No.	Display	Channels	Diode CY7 Series	4-Wire RTD	RS-232C	& IEEE-488	16 high/ low alarms	Latching Relays	Datalogger	Printer Output
CYD201A	1	1	✓							
CYD202S	1	2	1							
CYD202D	2	2	1							
CYD218E	8	8	~	~	~		/		~	~
CYD218S	8	8	✓	1	1	✓	/	✓	~	



CYD201A Rear Panel



CYD202S Rear Panel

Specifications:

Model PT-100 Series Temperature Range: 14 to 873 K (673 for PT-111)

Standard Curve: DIN 43760 Leads: 0.25 D x 15 mm length Accuracy: Class B, ±0.25° (at 0°C)

Repeatability: ±10 mk Thermal Response: ≈ 2 sec

Specifications: Model CYD201A, CYD202S, CYD202D

Inputs: One or Two **Sensor:** CY7 Silicon Diode

Sensor Excitation: 10 μA ±0.2% DC Temperature Range: 1.4 to 473 K Precision Curve Storage: Curve 10 Ambient Temperature: 15 to 35°C

Electronic Accuracy: ±0.1K Display: 4 LED display for each input

Display Resolution: 0. 1 K

Units: K or °C

Measurement Type: 2 lead Update Rate: 0.2 sec Power: 115 Vac adaptor

±10%, 50/60 Hz

Size:

CYD201: 91 W x 43 H x 146 mm D

(3.5 x 1.7 x 5.75")

CYD202: 96 W x 96 H x 146 mm D

(3.78 x 3.78 x 5.75")

Weight:

CYD201A: 1 kg (2.2 lb) **CYD202S:** 1.4 kg (3.08 lb) **CYD202D:** 1.7 kg (3.74 lb)

Specifications:

Model CYD218S, CYD218E

Input: Eight silicon diodes or RTDs Output: RS-232 Serial Interface, alarms, datalogging, printer support (IEEE-488, relays, and analog output for CYD218S)

Data Memory:

1500 point storage non-volatile memory or continuous to computer Silicon Diode: CY7 Series Platinum Resistance Element:

100 Ω , 1000 Ω

Sensor Excitation: 10 µA ±0.2% DC

for CY7, 1 mA \pm 0.3%

Temperature Range: 1.4 to 475 K for CY7, 1.4 to 800 K for Platinum RTD



CYD218 Series Rear Panel

Precision Curve Storage:

Curve 10 and DIN 43760

Ambient Temperature: 15 to 35°C

Electronic Accuracy: 0.011K at 4.2 K

Display: 5 LCD display for each of eight inputs simultaneously displayed

Display Resolution: 0.001K

Units: K, C, V or Ω

Measurement Type: 4 lead Update Rate: 16 readings/sec

Power: 100, 120, 220,

240 Vac; +5 - 10%, 50/60 Hz **Size:** 217 W X 90 H X 317 mm D

(8.5 x 3.5 x 12") half rack **Weight:** 3 kg (6.6 lb)

To Order (Specify Model Number) (See feature chart)					
Model No. Price		Description			
CYD201A	\$ 505	Single input, 1/8 DIN, Silicon Diode monitor			
CYD202S	515	Two input temperature monitor, one display-switchable			
CYD202D	775	Two input temperature monitor, two simultaneous displays			
CYD218E	1425	8 RTD, 8 CY7, or 4 RTD & 4 CY7 temperature monitor, simultaneous display, RS-232, datalogger,			
CYD218S	1735	CYD218E with IEEE-488, relays, analog output (€			

Each unit supplied with: Sensor Mating Connector, 120 V line cord, and operator's manual.

Ordering Example: CYD218S, PT102: Monitor with eight inputs, and Platinum RTD,

\$1735 + 70 = \$1805

Accessories (Platinum Resistance Temperature Devices - RTD)

Model No.	Price	Description
PT-102	\$ 70	RTD, 14 to 873 K (2 x 20.3 mm long, 230 mg weight)
PT-103	110	RTD, 14 to 873 K (1.8 x 12.1 mm long, 120 mg weight)
PT-111	115	RTD, 14 to 673 K (1.8 x 5 mm long, 52 mg weight)

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