

*Rugged, Reliable, and Ready  
for any Application*







RELIABLE  
SINCE 1974  
MONITORING

Terminal input modules (TIMs) are small peripherals that provide completion resistors for resistive bridge measurements, or act as voltage dividers or precision current shunts. The modules attach directly to the datalogger's input terminals. Each module provides circuitry

to connect one sensor, except for the voltage dividers which allow connection of two single-ended sensors.

The legs of our TIMs do not fit on the CR7 datalogger's connectors.

## MAJOR SPECIFICATIONS

		<i>Used With</i>	<i>Resistor</i>	<i>Tolerance @ 25°C</i>	<i>Power Rating</i>	<i>Maximum Temperature Coefficient</i>
<b>CURS100</b>   Current Shunt Module		Sensors that output a current signal (4 to 20 mA)	Shunt (bulk metal foil): 100 $\Omega$	$\pm 0.01\%$	0.25 W	$\pm 0.8$ ppm/ $^{\circ}\text{C}$
<b>VDIV10:1</b>   10-to-1 Voltage Divider		Sensors with a high voltage output (up to 50 V)	10 k $\Omega$ and 90 k $\Omega$	Ratio: $\pm 0.02\%$	per Element: 0.1 W @ 70°C	Ratio (0° to 70°C): 2 ppm/ $^{\circ}\text{C}$
<b>VDIV2:1</b>   2-to-1 Voltage Divider		Sensors with a high voltage output	10 k $\Omega$ and 10 k $\Omega$	Ratio: $\pm 0.02\%$	per Element: 0.1 W @ 70°C	Ratio (0° to 70°C): 2 ppm/ $^{\circ}\text{C}$
<b>4WFS120</b>   120 $\Omega$ , 4-Wire Full Bridge Module		4-wire strain gages or other full bridge measurements that have a 120 $\Omega$ nominal resistance.	<u>2:1 Resistive Divider</u> 1 k $\Omega$ /1 k $\Omega$  <u>Completion</u> 120 $\Omega$	<u>2:1 Resistive Divider</u> Ratio: $\pm 0.01\%$  <u>Completion</u> $\pm 0.01\%$	<u>2:1 Resistive Divider</u> per Element: 0.1 W @ 70°C  <u>Completion</u> 0.25 W @ 70°C	<u>2:1 Resistive Divider</u> Ratio (-55° to 85°C): 0.5 ppm/ $^{\circ}\text{C}$  <u>Completion</u> 0.8 ppm/ $^{\circ}\text{C}$
<b>4WFS350</b>   350 $\Omega$ , 4-Wire Full Bridge Module		4-wire strain gages or other full bridge measurements that have a 350 $\Omega$ nominal resistance.	<u>2:1 Resistive Divider</u> 1 k $\Omega$ /1 k $\Omega$  <u>Completion</u> 350 $\Omega$	<u>2:1 Resistive Divider</u> Ratio: $\pm 0.01\%$  <u>Completion</u> $\pm 0.01\%$	<u>2:1 Resistive Divider</u> per Element: 0.1 W @ 70°C  <u>Completion</u> 0.25 W @ 70°C	<u>2:1 Resistive Divider</u> Ratio (-55° to 85°C): 0.5 ppm/ $^{\circ}\text{C}$  <u>Completion</u> 0.8 ppm/ $^{\circ}\text{C}$
<b>4WFS1K</b>   1 k $\Omega$ , 4-Wire Full Bridge Module		4-wire strain gages or other full bridge measurements that have a 1 k $\Omega$ nominal resistance.	<u>2:1 Resistive Divider</u> 1 k $\Omega$ /1 k $\Omega$  <u>Completion</u> 1 k $\Omega$	<u>2:1 Resistive Divider</u> Ratio: $\pm 0.01\%$  <u>Completion</u> $\pm 0.01\%$	<u>2:1 Resistive Divider</u> per Element: 0.1 W @ 70°C  <u>Completion</u> 0.25 W @ 70°C	<u>2:1 Resistive Divider</u> Ratio (-55° to 85°C): 0.5 ppm/ $^{\circ}\text{C}$  <u>Completion</u> 0.8 ppm/ $^{\circ}\text{C}$



## MAJOR SPECIFICATIONS

**4WPB100** | 100  $\Omega$ ,  
4-Wire PRT Bridge  
Module



*Used With*  
100  $\Omega$  platinum resistive  
thermometer (PRT).

Current Limiting  
10 k $\Omega$ /  
Completion  
100  $\Omega$

*Tolerance @ 25°C*  
Current Limiting  
 $\pm 5\%$   
Completion  
 $\pm 0.01\%$

*Power Rating*  
Current Limiting  
0.25 W  
Completion  
0.25 W @ 70°C

*Maximum Temperature  
Coefficient*  
Completion  
0.8 ppm/°C

**4WPB1K** | 1 k $\Omega$ ,  
4-Wire PRT Bridge  
Module



1 k $\Omega$  platinum resistive  
thermometer (PRT)

Current Limiting  
10 k $\Omega$ /  
Completion  
1 k $\Omega$

Current Limiting  
 $\pm 5\%$   
Completion  
 $\pm 0.01\%$

Current Limiting  
0.25 W  
Completion  
0.25 W @ 70°C

Completion  
0.8 ppm/°C

**3WHB10K** | 10 k $\Omega$ ,  
3-Wire Half Bridge  
Module



100  $\Omega$  or 1 k $\Omega$  platinum  
resistive thermometer  
(PRT) or other 3-wire  
half bridge

10 k $\Omega$

$\pm 0.01\%$

0.25 W @ 70°C

$\pm 0.8$  ppm/°C

**4WHB10K** | 10 k $\Omega$ ,  
4-Wire Half Bridge  
Module



4-wire half bridge  
measurements with a  
10 k $\Omega$  resistance

10 k $\Omega$

$\pm 0.01\%$

0.25 W @ 70°C

$\pm 0.8$  ppm/°C