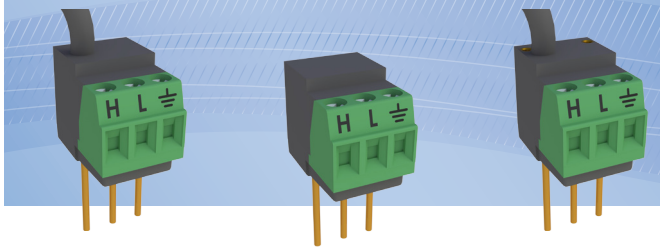
CAMPBELL SCIENTIFIC®
WHEN MEASUREMENTS MATTER

TIMS
Terminal Input Modules



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. Please note that the legs of our TIMs do not fit on the CR7 datalogger's connectors.

MAJOR SPECIFICATIONS

	Used With	*Resistor*	*Tolerance @ 25°C*	*Power Rating*	*Maximum Temperature Coefficient*
CURS100 | Current Shunt Module 	Sensors that output a current signal (4 to 20 mA)	Shunt (bulk metal foil): 100 Ω	±0.01%	0.25 W	±0.8 ppm/°C
VDIV10:1 | 10-to-1 Voltage Divider 	Sensors with a high voltage output (up to 50 V)	10 kΩ and 90 kΩ	Ratio: ±0.02%	per Element: 0.1 W @ 70°C	Ratio (0° to 70°C): 2 ppm/°C
VDIV2:1 | 2-to-1 Voltage Divider 	Sensors with a high voltage output	10 kΩ and 10 kΩ	Ratio: ±0.02%	per Element: 0.1 W @ 70°C	Ratio (0° to 70°C): 2 ppm/°C
4WFBS120 | 120 Ω, 4-Wire Full Bridge Module 	4-wire strain gages or other full bridge measurements that have a 120 Ω nominal resistance.	2:1 Resistive Divider 1 kΩ/1 kΩ Completion 120 Ω	2:1 Resistive Divider Ratio: ±0.01% Completion ±0.01%	2:1 Resistive Divider per Element: 0.1 W @ 70°C Completion 0.25 W @ 70°C	2:1 Resistive Divider Ratio (-55° to 85°C): 0.5 ppm/°C Completion 0.8 ppm/°C
4WFBS350 | 350 Ω, 4-Wire Full Bridge Module 	4-wire strain gages or other full bridge measurements that have a 350 Ω nominal resistance.	2:1 Resistive Divider 1 kΩ/1 kΩ Completion 350 Ω	2:1 Resistive Divider Ratio: ±0.01% Completion ±0.01%	2:1 Resistive Divider per Element: 0.1 W @ 70°C Completion 0.25 W @ 70°C	2:1 Resistive Divider Ratio (-55° to 85°C): 0.5 ppm/°C Completion 0.8 ppm/°C
4WFBS1K | 1 kΩ, 4-Wire Full Bridge Module 	4-wire strain gages or other full bridge measurements that have a 1 kΩ nominal resistance.	2:1 Resistive Divider 1 kΩ/1 kΩ Completion 1 kΩ	2:1 Resistive Divider Ratio: ±0.01% Completion ±0.01%	2:1 Resistive Divider per Element: 0.1 W @ 70°C Completion 0.25 W @ 70°C	2:1 Resistive Divider Ratio (-55° to 85°C): 0.5 ppm/°C Completion 0.8 ppm/°C

MAJOR SPECIFICATIONS

		Used With	*Resistor*	*Tolerance @ 25°C*	*Power Rating*	*Maximum Temperature Coefficient*
4WPB100 | 100 Ω, 4-Wire PRT Bridge Module		100 Ω platinum resistive thermometer (PRT).	Current Limiting 10 kΩ/ Completion 100 Ω	Current Limiting ±5% Completion ±0.01%	Current Limiting 0.25 W Completion 0.25 W @ 70°C	Completion 0.8 ppm/°C
4WPB1K | 1 kΩ, 4-Wire PRT Bridge Module		1 kΩ platinum resistive thermometer (PRT)	Current Limiting 10 kΩ/ Completion 1 kΩ	Current Limiting ±5% Completion ±0.01%	Current Limiting 0.25 W Completion 0.25 W @ 70°C	Completion 0.8 ppm/°C
3WHB10K | 10 kΩ, 3-Wire Half Bridge Module		100 Ω or 1 kΩ platinum resistive thermometer (PRT) or other 3-wire half bridge	10 kΩ	±0.01%	0.25 W @ 70°C	±0.8 ppm/°C
4WHB10K | 10 kΩ, 4-Wire Half Bridge Module		4-wire half bridge measurements with a 10 kΩ resistance	10 kΩ	±0.01%	0.25 W @ 70°C	±0.8 ppm/°C