

## Daystar MT-5 Multi-Tracer Photovoltaic Load & I-V Curve Tracer

Reliable, Self-Contained, Accurate

The MT5 Multi-Tracer monitors performance of multiple PV modules under load conditions. I-V curves, performance, and weather data are collected and stored. Built to user specifications.

- Up to 16 PV modules, expandable to 64
- 3,200 W per Load, expandable to 12.8 kW
- 24 thermocouple inputs, expandable to 56
- 8 analog voltage inputs
- Independent PV module control, PPT or fixed voltage
- I-V curves at user-selected intervals
- Network device with on-board data storage
- Web browser access and setup

For 30 years, Raydec instruments have set the standard for measuring performance of PV systems. Major photovoltaic companies and national laboratories use our instruments to evaluate PV modules and systems.



## Daystar MT5 Multi-Tracer Controller

Num. of Load Connections	1-4
Num. of Aux. Analog Inputs	8
Aux. Analog Input Range	+/- 5 Vdc
Num. of Thermocouple Inputs	24 standard; up to 56 may be ordered
Temperature Input Range	-40 to 200 deg C
Ambient Operating Temp.	0-50 deg C
Line Power Requirement	90-264 Volts AC, 50/60 Hz, 40 W
Width	17.5" (445 mm) , [19" (483 mm) w/mounting ears]
Height	8.75" (222 mm) [5 rack U]
Depth	10.625" (270 mm) , [12.125" (308 mm) w/handles]
Weight	15 lbs (6.8 kg)

Aux. Voltage Inputs	Accuracy	Resolution
+/- 5 V range	0.10%	0.15 mV
+/- 500 mV range	0.10%	0.015 mV
+/- 50 mV range	0.20%	1.5 $\mu$ V
+/- 5 mV range	0.30%	0.15 $\mu$ V
Temperature Inputs		
Type T	+/- 1. deg C	0.06 deg C
Type K	+/- 2 deg C	0.08 deg C

## Daystar MT5 Multi-Tracer Load Unit

Total Power of all PV Modules	3,200 W
Power per Module Channel	50 - 3,200 W*
Num. of PV Module Channels	1-16 per Load Unit*
Max. PV Voltage	500 Volts DC
Max. PV Current	20 Amps DC
Module Control	Peak-Power Tracking or Fixed Voltage
IV Curve Time	!2 Sec. per module
Ambient Operating Temp.	0-50 deg C
Line Power Requirements	90-264 Volts AC, 50/60 Hz, 200 W
Width	17.5" (445 mm) , [19" (483 mm) w/mounting ears]
Height	14" (356 mm) [8 rack U]
Depth	22.625" (575 mm) , [24.125" (613 mm) w/handles]
Weight	82 lbs (37.2 kg)
* Dependant on custom build configuration	

PV Voltage*	Accuracy	Resolution
500 V Range	0.10%	15 mV
50 V Range	0.10%	1.5 mV
5 V Range	0.20%	0..15 mV
PV Current*		
20 A Range	0.10%	0.6 mA
2 A Range	0.20%	0.06 mA
* Nominal Ranges, other ranges available		