

TITAN S8











Portable Data Acquisition Logger



The MadgeTech Titan S8 is a portable, multi-use industrial data logger with eight probe channels and a user-friendly touchscreen interface. This versatile logger supports thermocouple, RTD or thermistor probes to measure current, voltage, temperature and pulse in real time. This adaptability and power make Titan S8 the perfect companion for any industrial engineer, quality assurance professional, compliance officer or automotive technician.

Part of the Titan S8's might comes from its independence. Unlike many data loggers, the Titan is a complete, all-in-one solution that does not require a PC or any downloaded software for operation. This means the device is truly ready for use at a second's notice and will never leave users waiting because of upload times or a frustrating software interface.



 5 INCH TOUCH SCREEN	 16-BIT HIGH RESOLUTION	 DISPLAY ROTATION
 REAL-TIME DATA VISUALIZATION	 ON-SCREEN ALERTS	 WIRING DIAGRAM
 ON-SCREEN KEYBOARD	 BUILT-IN TROUBLESHOOTING	 LANGUAGE TRANSLATION
 WIFI AND ETHERNET CONNECTIVITY		

Features

- 8 Input Channels
- Download Data Via USB
- 1 GB Internal Memory
- Programmable Engineering Units
- No Required Software
- Rechargeable Battery

Applications

- HVAC Performance
- Energy Audits
- Automotive Safety Engineering
- Electronic Manufacturing
- Plant/Factory Performance
- Laboratory & Life Sciences
- Industrial Equipment Repair
- Food Safety



SPECIFICATIONS

Specifications subject to change. See MadgeTech's Terms and Conditions at madgetech.com.

GENERAL	
Dimensions	6.65 in x 4.40 in x 1.41 in (168.9 mm x 111.8 mm x 35.8 mm) <i>Data logger only</i>
Touch Screen Dimensions	5 inches
Number of Channels	8
Weight	1.3 lbs (20.8 oz)
IP Rating	IP20
Start Modes	Immediate Start & Delay Start
Memory	1,000,000 or 5,000,000 readings
Battery Type	Rechargeable 3.7 V Lithium Ion Battery Pack
Battery Life	<ul style="list-style-type: none"> Continuous on-screen sampling: 7-9 hours depending on display setting and reading rate Stand-by mode: 100 hours
Data Format	Exported .csv file format, .mtb or both
Time Accuracy	±1 minute/month
Operating Environment	0 °C to +50 °C (32 °F to +122 °F) 0 %RH to 95 %RH non-condensing
Enclosure Material	Polycarbonate, TPE Protective Boot
Calibration	Factory calibration is recommended annually

0 - 24 mA	
Range	-5 mA to 50 mA
Resolution	0.0001 mA
Accuracy	±0.024 mA (0 to 24 mA)
Input Impedance	30 Ω

0 - 100 mV	
Range	-100 mV to 2450 mV
Resolution	0.0001 mV
Accuracy	±0.1 mV (0 to 100 mV)
Input Impedance	1 GΩ
Maximum Voltage	3.0 V

0 - 10 V	
Range	-0.5 V to 12.0 V
Resolution	0.0001 V
Accuracy	± 0.01 V (-0.5 V to 12.0 V)
Input Impedance	1 GΩ
Maximum Voltage	25 V

THERMOCOUPLE TYPE	RANGE	RESOLUTION	ACCURACY
J	-200 °C to +760 °C	0.1 °C	±0.5 °C
K	-270 °C to +1370 °C	0.1 °C	±0.5 °C
T	-270 °C to +400 °C	0.1 °C	±0.5 °C
E	-270 °C to +980 °C	0.1 °C	±0.5 °C
R	-50 °C to +1760 °C	0.5 °C	±2.0 °C
S	-50 °C to +1760 °C	0.5 °C	±2.0 °C
N	-270 °C to +1300 °C	0.1 °C	±0.5 °C
B	50 °C to 1820 °C	0.5 °C	±2.0 °C

FREQUENCY / PULSE	
Maximum Count	4,000,000,000
Maximum Frequency	25 KHz
Input Signal	0 V to 12 V
Input Impedance	58 KΩ

TEMPERATURE PT-100 (2-WIRE RTD) (0.00385 CURVE)	
Range	-200 °C to +850 °C (Probe Dependent) (18.5 Ω to 390.5 Ω)
Resolution	0.01 °C
Accuracy	±0.1 °C (-200 °C to +400 °C) (Probe Dependent) ±0.034 Ω (18.5 Ω to 247.1 Ω)

TEMPERATURE PT-100 (3-WIRE RTD) (0.00385 CURVE)	
Range	-200 °C to +850 °C (Probe Dependent) (18.5 Ω to 390.5 Ω)
Resolution	0.01 °C
Accuracy	±0.1 °C (-200 °C to +400 °C) (Probe Dependent) ±0.034 Ω (18.5 Ω to 247.1 Ω)

TEMPERATURE PT-100 (4-WIRE RTD) (0.00385 CURVE)	
Range	-200 °C to +850 °C (Probe Dependent) (18.5 Ω to 390.5 Ω)
Resolution	0.01 °C
Accuracy	±0.1 °C (-200 °C to +400 °C) (Probe Dependent) ±0.034 Ω (18.5 Ω to 247.1 Ω)

TEMPERATURE NTC-1 (2252)	
Range	-25 °C to +150 °C (Probe Dependent) (29,380 Ω to 41.9 Ω)
Resolution	0.01 °C
Accuracy	±0.50% FSR (Probe Dependent)

TEMPERATURE NTC-2 (10K)	
Range	-25 °C to +150 °C (Probe Dependent) (102,900 Ω to 238 Ω)
Resolution	0.01 °C
Accuracy	±0.50% FSR (Probe Dependent)

RTD Note (All RTD Configurations)

Temperature Specifications based on ideal 100 Ω PT RTD Complaint with IEC 751(1983) and ITS-90. Accuracy based on 4-wire configuration.

BATTERY WARNING: Battery may explode or catch fire if mistreated. Do not disassemble or dispose of in fire. Do not charge except specified with charging condition. Do not heat above 212 °F, or short circuit. Do not crush or modify.



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