TITAN S8

Transportable Data Acquisition Device





Product Brochure | EN



TITAN S8

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.



FEATURES

The entire Titan S8 device is handheld, meaning powerful data measurement, equipment validation and process monitoring can travel wherever they are needed inside or outside of any facility. Titan S8 is a powerful and flexible as you need it to be at any time, for any application.

COMPACT DESIGN

Store Titan S8 in a toolkit, backpack, or jacket pocket.

8 CHANNEL INPUTS

View data from multiple leads or locations at the same time.

PROTECTIVE BOOT

Breathe easy knowing your device is shielded at all time. Minimize impacts with rugged, shock-absorbing rubber.



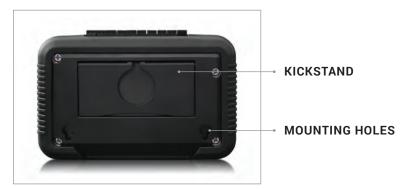
SIDE GRIP

Hold the Titan S8 confidently with one hand while placing leads and probes.

5" TOUCH SCREEN

View data on a full-color display designed for clarity and readability.

BACK





VERSATILITY

Perfect for those with a variety of responsibilities or validation tasks, the handheld Titan S8 provides dynamic, customizable solutions including programmable channel configurations, user-configurable engineering units and alarms for benchmark or undesirable readings. Any user-created settings can be stored within the logger, saving time and eliminating the need for constant reprogramming.



HVAC PERFORMANCE

- Room / Ambient Temperature
- Duct Temperature
- · Air Flow & Pressure



ENERGY AUDITS

- · Current/Voltage Fluctuations
- Energy Consumption
- · Machine Run Time



AUTOMOTIVE SAFETY ENGINEERING

- · Heat & Energy Transfer
- · Material Processes
- · Electrical Systems Analysis



ELECTRONIC MANUFACTURING

- Production Equipment Monitoring
- Temperature Stability
- Voltage & Current Troubleshooting



PLANT/FACTORY PERFORMANCE

- Diagnose Power Issues
- · Electrical Infrastructure Monitoring
- · Optimize Performance



LABORATORY & LIFE SCIENCES

- · Equipment Validation
- Temperature Mapping
- Process Verification



INDUSTRIAL EQUIPMENT REPAIR

- · Thermal & Electrical Diagnostics
- Verify Successful Repair
- · Routine Maintainence



FOOD SAFETY

- Oven Mapping
- Process Monitoring
- HACCP Compliance

TECHNOLOGY

The unprecedented data acquisition power of the Titan S8 comes from its incredible versatility. This single device is compatible with a variety of the most commonly used probe types and can be configured to measure a wide range of key factors.



8 INPUT CHANNELS

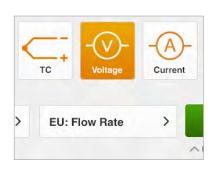
Manage a variety of incoming
data to study energy transfer and
machine performance.



USB DATA DOWNLOADExtract data instantaneously for upload and analysis.



1GB INTERNAL MEMORY Store up to 180,000,000 readings.



ENGINEERING UNITSProgram Titan S8 to accept any units of measure.



NO REQUIRED SOFTWARE Analyze data in Microsoft Excel without the need for additional software.



RECHARGEABLE BATTERY
Rechargeable lithium ion battery
designed to provide longer lasting
power per charge.

SENSOR TYPES



+









THERMOCOUPLE VOLTAGE

CURRENT

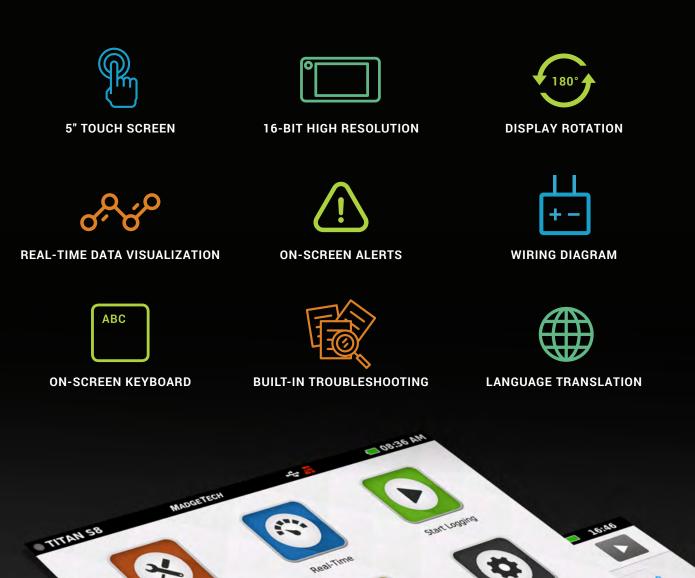
THERMISTOR

PULSE

RTD

USER INTERFACE

The Titan S8's easy-to-use interface allows users to view real-time data, including automatically generated graphs, in full color to enable in-the-moment analysis and decision-making.



Seetup Charmer Configuration Current Seeston Date Secretary Spart Landers Configuration Current Seeston Curren



SPECIFICATIONS

Specifications subject to change without notice. Specific warranty remedy limitations apply.

GENERAL

Number of Channels..... 8

Operating Environment .. 0 °C to 50 °C (32 °F to +122 °F)

0 %RH to 95 %RH non-condensing

Battery Type...... Rechargeable 3.7 V Lithium Ion Battery Pack

Battery Life..... Continuous On-Screen Sampling: 9 hours

Stand-by Mode: 100 hours

Dimensions....... 6.65 in x 4.40 in x 1.41 in

(168.9 mm x 111.8 mm x 35.8 mm)

Enclosure Material.. Polycarbonate, TPE Protective Boot

Weight...... 1.3 lbs (20.8 oz)

IP Rating..... IP20

0-24 MA

FREQUENCY / PULSE

Input Impedance 58 KΩ

TEMPERATURE PT-100

(2-WIRE RTD)

Range -200 °C to 400 °C

0-100 MV

TEMPERATURE NTC-1 (2252)

 Resolution
 0.01 °C

 Accuracy
 ±0.50%

 Range
 -25 °C to 150 °C

TEMPERATURE PT-100

Range -200 °C to 400 °C

0-10 V

TEMPERATURE NTC-2 (10K)

TEMPERATURE PT-100 (4-WIRE RTD)

Resolution 0.01 °C

Accuracy ±0.1 °C

Range -200 °C to 400 °C

THERMOCOUPLE

TYPE	RANGE	RESOLUTION	ACCURACY
Type J	-210 °C to +760 °C	0.1 °C	±0.5 °C
Туре К	-270 °C to +1370 °C	0.1 °C	±0.5 °C
Туре Т	-270 °C to +400 °C	0.1 °C	±0.5 °C
Type E	-270 °C to +980 °C	0.1 °C	±0.5 °C
Type R	-50 °C to +1760 °C	0.5 °C	±2.0 °C
Type S	-50 °C to +1760 °C	0.5 °C	±2.0 °C
Туре В	+50 °C to +1820 °C	0.5 °C	±2.0 °C
Type N	-270 °C to +1300 °C	0.1 °C	±0.5 °C

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

