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Your Automation Site !

TITAN S8

Transportable Data Acquisition Device

MADGETECH
WE BUILD DATA LOGGERS

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

KICKSTAND

MOUNTING HOLES

PLCs Acquisition Instruments Data logger Power HMIs Switches Motion Sensors Converters Keyboards SCADA Telemetry

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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

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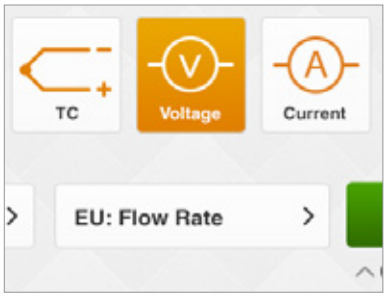
TECHNOLOGY

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.

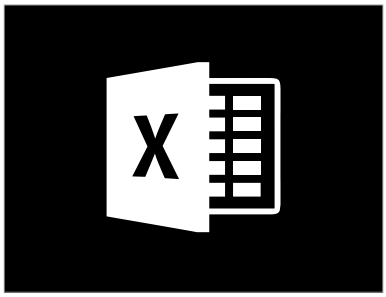
8 INPUT CHANNELS
Manage a variety of incoming data to study energy transfer and machine performance.

USB DATA DOWNLOAD
Extract data instantaneously for upload and analysis.

1GB INTERNAL MEMORY
Store up to 100,000,000 readings.



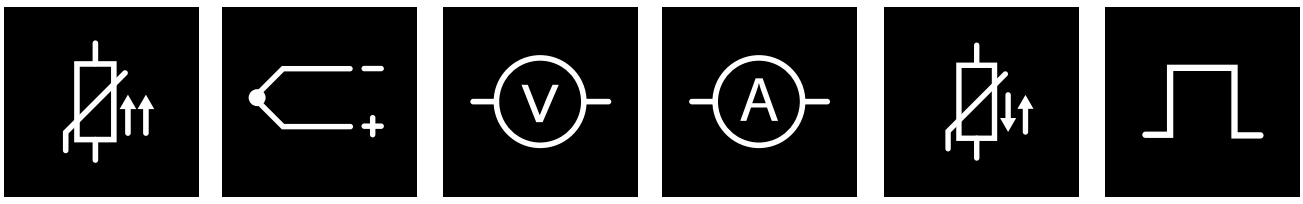
ENGINEERING UNITS
Program Titan S8 to accept any units of measure.



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

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

SENSOR TYPES



RTD | THERMOCOUPLE | VOLTAGE | CURRENT | THERMISTOR | PULSE

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.

5" TOUCH SCREEN

16-BIT HIGH RESOLUTION

DISPLAY ROTATION

REAL-TIME DATA VISUALIZATION

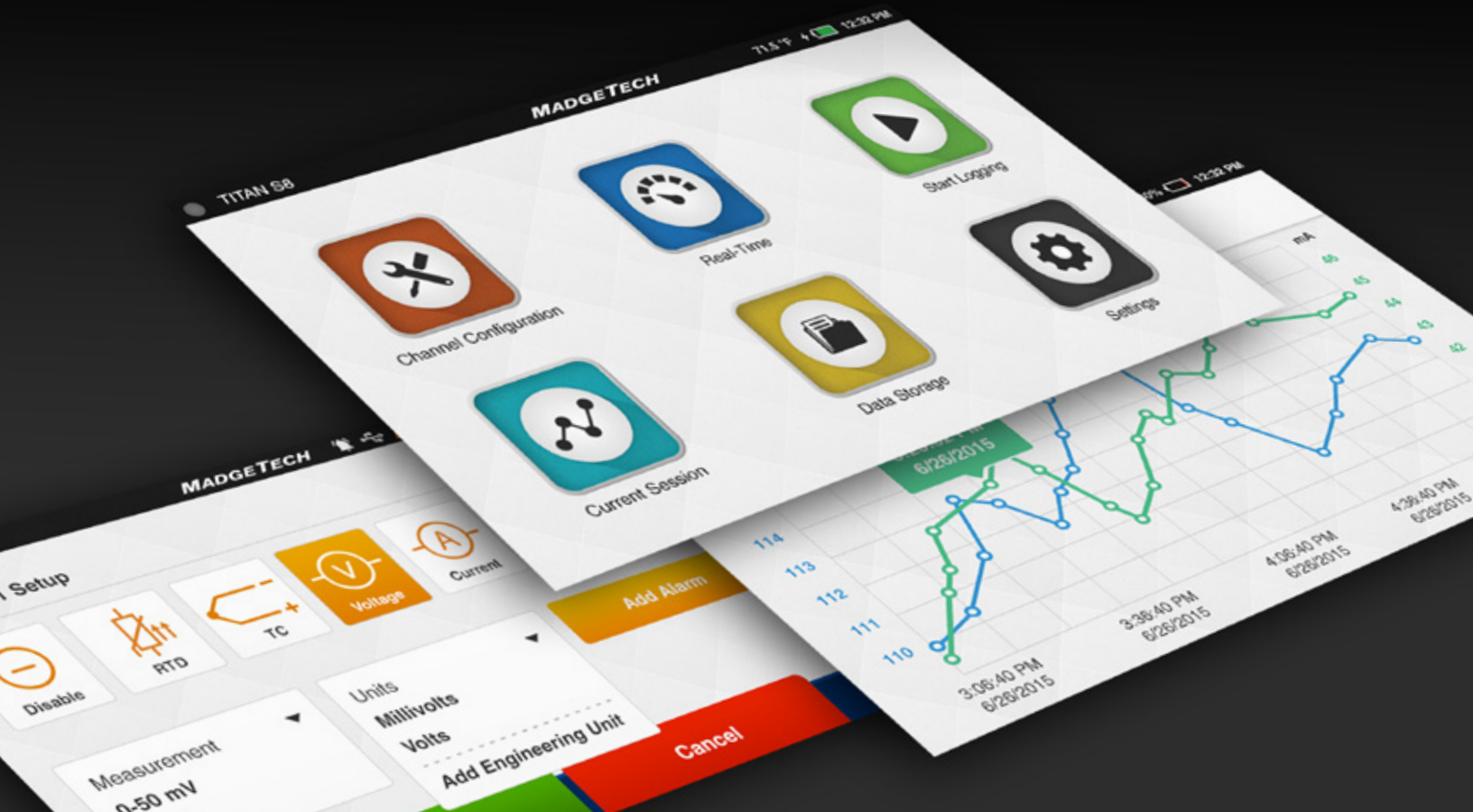
ON-SCREEN ALERTS

WIRING DIAGRAM

ON-SCREEN KEYBOARD

BUILT-IN TROUBLESHOOTING

LANGUAGE TRANSLATION



SPECIFICATIONS

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

GENERAL

Number of Channels	8
Memory	100,000,000 readings, 1 GB
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: 14 hours Stand-by Monde: 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	PC / ABS Enclosure, TPE Protective Boot
Weight	1.3 lbs (20.8 oz)
IP Rating	IP20
Approvals	CE

0-24 MA

Resolution	16 bit
Accuracy	0.10%

0-50 MV

Maximum Voltage	5.2V
Resolution	16 bit
Accuracy	0.10%

0-10 V

Maximum Voltage	25 V
Resolution	16 bit
Accuracy	0.10%
Input Impedance	125 KΩ

TEMPERATURE NTC-1 (2252)

Resolution	0.05 °C
Accuracy	0.50%

TEMPERATURE NTC-2 (10K)

Resolution	0.05 °C
Accuracy	0.50%

TEMPERATURE PT-100 - 3 WIRE

Resolution	0.01 °C
Accuracy	0.1 °C

TEMPERATURE PT-100 - 3 WIRE

Resolution	0.01 °C
Accuracy	0.1 °C

INTERNAL TEMPERATURE

Resolution	0.01 °C
Accuracy	0.25 °C

FREQUENCY / PULSE

Maximum Count	4,000,000,000
Maximum Frequency	4 KHz
Input Signal	0 V - 5 V

THERMOCOUPLE

TYPE	RANGE	RESOLUTION	ACCURACY
Type J	-210 °C to +760 °C	0.1 °C	±0.5 °C
Type K	-270 °C to +1370 °C	0.1 °C	±0.5 °C
Type T	-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
Type B	+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.

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