



THE STORM

THE STORM SERIES OF BROWSER - BASED DATA LOGGERS

The Storm Family:

The Storm family of data loggers offer basic to complex communication and I/O solutions. All Storm data loggers use the same easy to use, browser based graphical user interface. Migration from one level of Storm data logger to another is simple and intuitive.

The Interface: No special software is required to configure a Storm data logger. It works with all standard web browsers on PC's, tablets and smart phones including Internet Explorer, Firefox, Chrome, etc.

The Storm 3: The Storm 3 is a mid range data logger with a cost to performance ratio that makes it ideal for many applications. The Storm 3 has a balanced set of inputs for analog, digital I/O and smart sensors. Communication options allow it to function with various devices including displays, bubblers and other external communication equipment.

KEY FEATURES

- Simple and intuitive browser based Graphical User Interface
- Compatible with Internet Explorer, Firefox and other web browsers
- The GUI works on PC's lap tops, tablets and smart phones
- Direct connect or wireless (Wi-Fi) connection for the GUI interface
- Library based sensor setup options
- Context sensitive, **"Built In"** help menus
- Linux based operating system
- Two USB 2.0 compliant host ports, (thumb drives, etc)
- One USB 2.0 compliant device port, (mass storage and communications)
- Low profile extruded aluminum case fits small spaces
- Wiring does not interfere with I/O labels
- Removable terminal strip connectors
- Power and Activity LED's for visual indication of operation
- Applications include hydrological, meteorological, agricultural, industrial control, storm and waste water monitoring, etc



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Specifications

DATA I/O		
Analog Inputs	Channels	4 Single Ended
	Resolution	24 Bit Resolution
	Accuracy	±0.025% FS
	Range	0.0 to 5.0 Volts (0.001 to 4.998V)
+5.00 Volt Excitation	Type	Switched, Ratio Metric with A/D
	Accuracy	±5.0 mV over load and temperature range
	Current	10 mA Max Load
Switched +12.0 Volt Excitation	Type	Switched, Unregulated Based on Battery Voltage
	Current	1A Max Load, Protected by Resettable Fuse
Constant +12.0 Volt Excitation	Type	Unregulated Based on Battery Voltage
	Current	1A Max Load, Protected by Resettable Fuse
Digital I/O	Channels	4 General Purpose Digital I/Os
	Modes	Digital Input Counter Input Conditional Output
	Input Levels	0.0 to 5.0 Volts Low = 0.08 Volts or Less High = 3.5 Volts or Higher
	Output Levels	Low = 0.4 Volts Max Sinking 5 mA High = 3.5 Volts Min Sourcing 5 mA
	Counter Frequency	100 Hz Maximum
	Counter Debounce	Programmable up to 2 seconds
SDI-12	Mode	SDI-12 Master Mode V1.3 Compliant
	Connector	Three Position Removable Screw Terminal
INTERFACE		
RS-232	Type	Single RS-232 Configured as a DTE Device
	Connector	9 pin D Connector, Male
	Baud Rate	Programmable
RS-485	Type	Single RS-485 Port
	Connector	4 Position Screw Terminal
USB	Type	2 Host USB-A Connectors USB-A 1 Device Mini-B Connector
	Version	USB Version 2.0

GENERAL		
Power	Input Voltage	10.0 to 16.0 Volts Reverse Voltage Protected
	Current Draw	Sleep: 3.5 mA Max Active: 50.0 mA Typical
	Connector	2 Position Screw Terminal
RTC	Accuracy (Drift)	< .05 Seconds per day
Data Storage	Capacity	>256 Megabytes
LEDs	Power LED	Blinks once every 5 seconds when power is present
	Active LED	Blinks when active
ENVIRONMENTAL		
Temperature	Operation	-40 ° to +60 ° C
	Storage	-50 ° to +80 ° C
Humidity	0 to 99% non-condensing	
IP Rating	IP62 (Dust protection and falling water resistant)	
PHYSICAL		
Case	Type	Extruded Aluminum
	Size	4.375 Inches Wide 2.45 Inches Deep 7.375 Inches High (including end brackets)
	Mounting Hole Pattern	3.0 Inches by 6.800 Inches
	Mounting Hole Size	0.1875 Inch Diameter
Weight		
Accessories (Supplied)	USB Communication Cable Wireless (Wi-Fi) Adaptor	
MISCELLANEOUS		
Warranty	The Storm series of data loggers are warranted against defects in materials and workmanship for two years from the date of shipment.	
Notes	Specifications subject to change without prior notice due to on-going commitment to product testing and improvements. LR February 2012. D52 0212	

