

## Data Sheet

# Battery Watch

- ✚ Battery Discharge Monitor
- ✚ Connects to a 12 Volt Battery
- ✚ Prevents Deep Discharge
- ✚ For Solar & Fuel Cell Batteries
- ✚ Optional Latching Alarm Relay



The Xtronix Battery Watch is designed to prevent deep discharge in Lead Acid Batteries by disconnecting the load when the battery voltage reaches a preset value. A Lead Acid battery can be permanently damaged if a load is left connected to it which causes the battery to discharge completely (deep discharge).

To maximise battery life, the load should be disconnected from the battery when the battery voltage reaches the battery manufacturer's recommended 'cut off' voltage. The actual 'cut off' voltage is affected by the battery construction and the battery loading – refer to the battery manufacturer's specification to determine the optimum cut off voltage. The voltage at which the unit disconnects the load can be preset prior to connecting the unit to a battery and load.

The Xtronix Battery Watch can also be supplied with an optional latching relay that can be set by an external alarm signal. Once set, the latching relay stays set even if the power is removed from the unit. This is intended to provide a permanent alarm state for telemetry systems. The latching alarm output is presented as a change over contact (NO-COM-NC). It is cleared when the reset button is pressed.

### Specifications

Nominal Input Voltage	12 volts DC (e.g. typical Lead Acid Battery Voltage)
Maximum Input voltage	16 volts DC (allows for battery charging)
Maximum Load Current	10 amps DC (NOTE: user must provide external 10A fuse)
Battery and Load Connectors	2 Way Screw Terminal – wire size 21 AWG to 14 AWG
Latched Alarm Relay Input Connector	2 Way Screw Terminal – wire size 30 AWG to 16 AWG
Latched Alarm Relay Output Connector	3 Way Screw Terminal – wire size 30 AWG to 16 AWG
Latched Alarm Relay Actuating Voltage	12 volts @ 15 mA (800 ohm coil) – other voltages available
Latched Alarm Relay Contact Rating	1 amp at 24 volts resistive (30 volts DC Max)
Temperature Range	0 to + 40°C
Humidity	+ 5 to + 80% Non Condensing
CE Marked	Yes – Safety, EMC, ROHS and WEEE

### Ordering Information

Battery Watch	<b>Xtronix P/N</b> 551/9001
Battery Watch with 12V Latching Relay	551/9001 LA12V

NOTE: Description and specifications may be changed without notice.

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**Xtronix Ltd, 22 Orchard Coombe, Whitchurch Hill, Reading, Berks, RG8 7QL, UK**

Registered Office, The White House, Mill Road, Goring on Thames, Reading, Berks, RG8 9DD, UK  
Company Registered in England, Number 4450219  
VAT Registration Number 798 0264 90