



SMART BATTERY PACKS FOR WIRELESS APPLICATIONS

ISO 9001: 2008
Certified

888-367-4286
713-559-9200
fax 281-292-2860
www.detcon.com
sales@detcon.com



DESCRIPTION

High energy “smart” battery packs are a necessary component in the application of any SmartWireless™ detection system. Detcon’s Smart Battery packs consist of rechargeable lithium ion batteries packaged as a plug-in module. The module is equipped with integrated safety electronics that include fuel gauge, voltage, current, and temperature monitoring circuits. The safety circuitry continuously monitors the battery module’s condition and reports critical status information to a serial port in the Detcon Model RXT-300 wireless transceiver. Detcon’s Smart Battery modules are housed and secured inside a Division 1 enclosure using a mechanical guide and large surface area gold plated mating connectors. Detcon’s battery modules are capable of providing power to a wide range of toxic and combustible gas detection sensors as well as other process measurement devices. Operating periods before recharge vary based on the power requirements of each gas sensor and/or field device. Low power electrochemical toxic sensors can be expected to operate for periods as long as 2-3 months while higher powered combustible gas sensors will operate for 3-4 weeks. Detcon Smart Battery packs are generally suitable for any field device that is rated equal to or less than 1 watt of power. An optional solar charging panel is available in Class 1, Division 1; and Class 1, Division 2 packages. Solar charging panels can be stacked and sized to meet the requirements of continuous operation in virtually any location with sufficient daily average sunlight.

FEATURES

- ▷ High energy lithium ion battery technology
- ▷ Low voltage disconnect
- ▷ Built-in gauge with digital output indicating charge level
- ▷ Optional Loop Powered display for gas sensor/field device HMI

SPECIFICATIONS / ORDER GUIDE

Part Number (with loop-powered display)	976-000316-000	976-000317-000
Part Number (without loop-powered display)	976-000306-000	976-000307-000
Battery Type	Lithium Ion	Lithium Ion
Voltage Interconnect	12 VDC	24 VDC
AH Rating	10 AH	5 AH
Electrical Classification	Class 1: Div1	Class 1: Div1
	Group C-D	Group C-D
Battery Enclosure	Cast Aluminum	Cast Aluminum
	Epoxy Baked Finish	Epoxy Baked Finish
Enclosure Dimensions	5.825" x 6.1" x 7.1"	5.825" x 6.1" x 7.1"
Fuel Gauge	Yes	Yes
Low Voltage Disconnect	Yes	Yes
Operating Temperature Range	-5°C to 55°C charging	-5°C to 55°C charging
	-20°C to 60°C discharging	-20°C to 60°C discharging
Storage Temperature	-40°C to 60°C	-40°C to 60°C
Warranty	1 Year	1 Year
Plug-in Battery Pack	PN 976-000303-000	
Four Gang Battery Charger	PN 976-000304-004	

www.detcon.com