

Allflex RF Link Battery Pack

RFL100, RFL200



General Description

The Allflex RF Link Battery Pack converts the Allflex Stick Reader into a portable device by providing a mobile rechargeable battery power source. It also provides an optional means of transmitting ear tag identification codes wirelessly to a data collection device, such as a PC or weigh-scale. The RF Link Battery Pack is packaged in a rugged aluminum enclosure, featuring a DB9 data connector for attachment of the Allflex Stick Reader and optional attachment of a serial communications device.

Construction

The Allflex RF Link Battery Pack measures approximately 115mm x 70mm x 43mm (4.5" x 2.75" x 1.7"), and weighs between 0.45kg and 0.6kg (16oz to 21oz), depending on battery chemistry and RF option. All connections for power, data, and charging are located on the top end panel. Power and data connections to the Stick Reader are made through a DB9 connector, to which the Stick Reader's DB9 connector mates and locks down with thumb-screws. Due to the types of connectors used and the audible beeper orifice, the Battery Pack device is not hermetically sealed and carry an IP40 ingress protection rating (neither dust nor water resistant).



Performance Capabilities

The Allflex RFL100 (Mobile Unit) and RFL200 (Base Unit) units, which contain wireless communications, provide approximately 2,500 tag reading cycles, due to the power consumption of the integral RF modules, and can be recharged in 2.5 hours. Operating range of the RFL100 and RFL200 is approximately 150 meters.

Ordering Information

SKU	Description
Allflex Model RFL100	Mobile Unit
Allflex Model RFL200	Base Station

Accessories(Included with RF Link Battery Pack)

- Belt-hook Carrying Pouch
- 2 meter DB9M/F PC Interface Cable

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Allflex RF Link Battery Pack

RFL100/RFL200

SPECIFICATIONS

GENERAL

Compatibility:	For use with Allflex Stick Reader (Model RS-250 series)
Form Factor:	Extruded Anodized Aluminum Enclosure
User Interface:	Power ON/OFF Switch, Red Charging Indicator Light Audible Beeper Connectors for Charging, Stick Reader, PC, and RF Antenna
Battery:	10.6VDC/1600 mAh NiMH (9 x AA Cells)
Charger/Adapter:	100-240 VDC 50/60 Hz Power Strip Mount 18 VDC Output @ 1.1 A
RF Link Option:	433.92 MHz transceiver / 9600 BPS data transfer rate / 64 byte packets Antenna – 16.5 cm ¼ wavelength element Range – 150 meters (500 feet)
Agency Certifications:	Charger/Adapter is UL and CE listed

PHYSICAL/ENVIRONMENTAL

Dimensions:	115mm x 70mm x 43mm (4.5" x 2.75" x 1.7")
Weight:	0.6 kg (21 oz.)
Material:	Extruded Aluminum (2.5mm / 0.1" thick)
Color:	Black Anodize
Operating Temperature	-10°C to +45°C
Storage Temperature	-10°C to +45°C
Charging Temperature:	+/-15°C to +30°C
Humidity:	0 to 95%
Altitude:	-100 to + 3,000 meters
Mechanical Shock:	Per IEC 68-2-27
Vibration:	Per IEC 68-2-6
Hermeticity:	IP-40 (dust resistant/no protection against water) per IEC 529

RELIABILITY

MTBF:	50,000 hours
MTTR:	0.5 hours
Expected Life:	5 years (except battery)

PERFORMANCE

Number of Reads/Charge Cycle: (3 sec. Interrogation)	Full Charge – 2,500 Fast Charge – 2,000
Charging Time:	2.5 hour fast charge (80% capacity) + 8 hour trickle charge
Charging Sense:	-ΔV w/2.5 hour timeout
Charging Indicator:	Flashing LED for fast charge/steady on for trickle charge
Battery Life:	>500 charge/discharge cycles

