

**ISO Compatible RF/ID Compact Reader
For Passive Electronic Identification Transponders
(P/N 930009-001)**



General Description

The Allflex Compact Reader is a hand-held battery powered passive transponder reading device that is compatible with the technical specifications of ISO Standards 11784 and 11785, including both FDX-B and HDX technologies. The Compact Reader provides the basic RF/ID reader functions of reading and displaying the identification code contained within passive transponder for visual observation and for manual transcription. The user interface consists of (1) a large thumb-actuated Read button and three auxiliary buttons for Reader configuration, (2) a 2x8 alphanumeric character LCD display, and (3) an audible (beeper) and visual (red LED) valid read indicator. An options menu provides the user with specifying the display of the ID code number in either decimal or hexadecimal format, automatic recall of the last read transponder's ID code, and selection of reading HDX, FDX-B, or both types of ISO transponders.



Construction

The Allflex Compact Reader is assembled in a compact enclosure that has been designed to be easy to hold and operate with either hand, and convenient to position in the vicinity of the transponder being scanned. The scanning antenna coil is internally mounted in the forward end of the case, and is oriented for optimal read distance with FDX-B glass transponders when the axis of the transponder is parallel to the end of the enclosure. The battery compartment comprises a snap open/close cover, and the 9V battery automatically makes electrical contact when inserted. The Allflex Portable Reader measures 125.5mm L x 70mm W x 24mm H (4.9" L x 2.75" W x 0.94" H), and weighs approximately 0.18 kg (6.5 ounces) with an alkaline battery installed.

Performance Capabilities

The Allflex Portable Reader is capable of reading the Allflex 12mm FDX-B glass implantable transponder at a nominal distance of 5cm (optimum orientation) with a read error rate no greater than 1 in 10⁶. HDX eartag type transponders can be read at a nominal distance of 10cm. When equipped with an alkaline battery, the Reader can perform at least 2,500 reading operations, and when equipped with an externally rechargeable Ni-Cad battery, at least 1,200 reading operations can be performed on a single charge.

Ordering Information

Allflex P/N 930009-001 ISO Compatible Compact Reader

Allflex Europe
ZI. de Plagué
Route des Eaux, B.P. 70
F-35502 Vitre Cedex, France
Tel 33 (0)2.99.75.77.00
Fax 33 (0)2.99.75.77.29

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Dallas/Ft. Worth Airport
Texas 75261-2266
Tel (972) 456-3686
Fax (972) 456-3882

Allflex Australasia
Private Bag 11003
Palmerston North
New Zealand
Tel 64 (06) 356-7199
Fax 64 (06) 358-5982

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SPECIFICATIONS

GENERAL

RFID Compatibility:	ISO 11784 & 11785 HDX and FDX-B
Form Factor:	Portable Handheld ABS Plastic Enclosure
User Interface:	Single "On/Press to Read" Activation Button Menu & Scroll Up/Down Option Select Buttons 16 character (2x8) LCD display Audible Beeper and Red LED "Read" Indicators
ID Code Display Format	Decimal or Hexadecimal
Memory:	Holds last ID Code in memory and on display indefinitely until next read
Battery Power:	1 9V Alkaline Battery (disposable), or 1 9V Ni-Cad Battery (externally recharged)
Agency Certifications: (PENDING)	Electromagnetic Compatibility - FCC Part 15 Class A, and CISPR 22 (EN55022), and EN50082-1 Product Safety - UL1950, IEC950 (CE Marked) ISO Certification (when requirements published)

PHYSICAL/ENVIRONMENTAL

Dimensions:	125.5mm L x 70mm W x 24mm H (4.9" L x 2.75" W x 0.94" H)
Weight:	0.18 kg. (6.5 oz.) with alkaline battery installed
Material:	ABS UL94 HB Plastic
Color:	Black
Operate Temperature	+5°C to +40°C (IEC68.2.1/.2)
Storage Temperature	-10°C to +55°C (IEC68.2.1/.2)
Humidity:	0 to 95% (IEC68.2.56)
Altitude:	-100 to +3,000 meters
Mechanical Shock:	Per IEC 68-2-27
Vibration:	Per IEC 68-2-6
Hermeticity:	IP-50 (dust resistant / no protection against water) per IEC 529

RELIABILITY

MTBF:	50,000 hours
MTTR:	0.5 hours
Expected Life:	5 years, minimum

PERFORMANCE

Read Distance:	5cm (typical - Allflex 11.5mm FDX-B transponder) 10cm (typical - Allflex HDX eartag)
Reading Orientation:	0° to 45° with less than 10% range decrease
Read Error Rate:	Less than 1 in 10 ⁶
Read Cycles/Battery:	2,500 - Alkaline (disposable) 1,200 - Ni-Cad (rechargeable)