ISO Compatible RF/ID Compact Reader
For Passive Electronic Identification Transponders
Model No. RS200-V2

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 a 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 allows the user to specify 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 several reader operating parameters.

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 10^6. 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 Model No. RS200-V2   ISO Compatible Compact Reader

Allflex Europe	Allflex USA, Inc.	Allflex Australasia
ZI. de Plagué	P.O. Box 612266	Private Bag 11003
Route des Eaux, B.P. 90219	Dallas/Ft. Worth Airport	Palmerston North
35502 Vitre Cedex, France	Texas 75261-2266	New Zealand
Tel 33 (0)2.99.75.77.00	Tel (972) 456-3686	Tel 64 (06) 356-7199
Fax 33 (0)2.99.75.77.29	Fax (972) 456-3882	Fax 64 (06) 358-5982

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Allflex ®

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)
Electromagnetic Compatibility (EMC) Agency Certifications:	FCC Part 15 Class A CISPR 22 (EN55022), and EN50082-1 ETSI 300 330-1 Industry Canada (IC) RSS-210

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	+5ºC to +40ºC (IEC68.2.1/.2)
Storage Temperature	-10ºC to +55ºC (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:	6cm (typical - Allflex 12 mm FDX-B transponder) 10cm (typical – Allflex HDX eartag)
Reading Orientation:	0º to 45º 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)