

# RS200 Series Compact Reader

## ISO Compatible

### Model RS200B



#### General Description

The Allflex RS200 Series 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 the passive transponder for visual observation and for manual transcription.

#### Construction

The Allflex RS200 Series Compact Reader is assembled in a compact enclosure that is designed to be easy to hold and operate with either hand. It is also 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.



#### Performance Capabilities

The Allflex RS200 Series Compact Reader is capable of reading the Allflex 12mm FDX-B glass implantable transponder at a nominal distance of 5cm (1.97") (optimum orientation) with a read error rate no greater than 1 in  $10^6$ . HDX ear tag 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 operations. When equipped with an externally rechargeable Ni-Cad battery, at least 1,200 reading operations can be performed on a single charge.

#### Ordering Information

##### SKU

Allflex Model RS200B-3

##### Description

RS200 Series Compact Reader with Accessories

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# RS200 Series Compact Reader ISO Compatible Model RS200B

## 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 9VDC Alkaline Battery (disposable), or 1 9VDC Ni-Cad Battery (externally recharged)
Agency Certifications:	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
Operating 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

### RELIABILITY

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

### PERFORMANCE:

Read Distance:	5cm (1.97") (typical - Allflex 11.5mm FDX-B transponder) 10cm (3.94") (typical - Allflex HDX High Performance tag)
Reading Orientation:	0° to 45° with less than 10% range decrease
Read Zone:	360° in radial and axial planes with respect to axis of antenna
Read Error Rate:	Less than 1 in 10 <sup>6</sup>
Read Cycles/Battery:	2,500 – Alkaline (disposable) 1,200 – Ni-Cad (rechargeable)

