

Reader – Tag Spec Sheet

Type	FS2001F-ISO	BIOMARK 601	Pocket Reader	Pocket Reader EX	FS1001M
Operating Frequencies (primary frequency in bold, in kHz)	400, 125 & 134.2	125' 134.2 & HDX	125, 134.2	125, 134.2	134.2 only
Read Range (new batteries or fully charged.)	see chart below	see chart below	see chart below	see chart below	see chart below
Dimensions	base unit-24x11x8cm	27.5x6.8x8.3cm	17x8x3.2cm	28.5x8x3.2cm	50x20x12cm
Weight	6 lbs w/antenna	350 g	11 oz / 308 g	14.5 oz / 406 g	16 lbs no antenna
Antenna Design	Attachable by cable	Internal	Internal	Internal	Attachable by cable
Antenna Power Adjustable	Yes	No	No	No	Yes
External Power Requirements	12v DC or 110v-220v AC	Optional	No	Optional	24 v DC
Internal Battery Life (room temp.)	6 hours	Battery Dependent	Battery Dependent	Battery Dependent	n/a
Internal Battery Type	Ni Metal Hydride	Rechargeable NIMH (included) or (4) AA	(4) AAA	(4) AA	n/a
12 Volt DC Capable (external battery)	Optional	No	No	No	Yes
AC Power Capable	Optional	Included	No	Optional	Yes
Operating Temperature Range	0 to 50 C	5 to 40 C	0 to 50 C	0 to 50 C	-20 to 70 C
Storage Temperature	-20 to 65 C	-10 to 55 C	-20 to 65 C	-20 to 65 C	-20 to 65 C
Humidity (non-condensing)	10% to 90%	0 to 95 %	10% to 90%	10% to 90%	10% to 90%
Display Type	LCD/Backlight	LCD	LCD	LCD	LCD/Backlight
Tag Code Storage Memory*	4,400	1600	500	500	6000
Date & Time Stamp Option	Yes	Yes	No	No	Yes
Waterproof	Resistant	Yes	No	No	No
Shockproof	Yes	Per IEC 68-2-27	No	No	No
RS232 Port Available (tag code memory download)	Yes	Yes	Yes	Yes	Yes
RS232 Cable	Standard	Standard	Standard	Standard	Optional
Automatic Power Shut Off	Programmable	Programmable	Yes	Yes	No
Trouvan Tag Detection	No	No	Yes	Yes	No
ISO Compliant	Yes	Yes	Yes	Yes	No
Protective Case	Standard	No	Standard	Standard	Optional
Continuous Operation Capability	Programmable	No	No	No	Programmable
Waterproof Case	Optional	Yes	Standard	Standard	Optional
Warranty (from date of purchase)	1 Year	1 Year	1 Year	1 Year	1 Year
Read Distance:**					
9mm, 134.2 kHz	9.0"-12.5"	3"-5 "	1.0"-2.0"	1.0"-3.0"	n/a
12.5mm, 134.2 kHz	9.0"-14.5"	5"-7"	2.0"-4.0"	2.0"-4.5"	n/a
22mm, 134.2 kHz	17.0"-22.0"	7"-11"	2.5"-4.5"	2.5"-5.0"	n/a
BIO12A0301 12.5mm, 125 kHz	5.0"-8.5"	2"-3"	1.5"-2.5"	2.0"-3.0"	n/a
* Detected tag codes stored internally					
** Read range is affected by tag orientation and environmental noise. When a range is present the smaller number represents approximate read distance when tag is parallel to the antenna face (worst orientation) while larger number represents approximate read distance when tag is perpendicular to the antenna face (best orientation). Environmental noise can be caused by: power lines, dirty AC power, overhead lights, pumps, etc.					

Notes: FS2001FR-ISO detects 400kHz tags 3-4" from antenna with 1 meter long cable and will read 100% when racket antenna is used in a pass through operation.

