



AP-90 RFID Reader

The AP-90 reader is part of AcuProx product line for access control. It is indicated for Applications that use cards and tags operating at 125 kHz. With ABS structure, has excellent mechanical strength. The highlight is its read range of up to 90 cm.

Purchase Code: 500.177 - Source 220 VAC | 500.419 - Source 110 VAC

• Features

The AP-90 is a powerful high-performance RFID reader, with a nominal range of up to 90 cm and resistant to water splashes, built in ABS structure, allowing installation in outdoor environments when combined with protection against rain. Among the many applications include: access of vehicles in parking lots and condominiums, ordinances, control incoming and outgoing trucks and other places where the Long Range Identification is required. AP-90 provides four communication interfaces on the same product: RS-232C, 26-bit Wiegand, ABA TK2 and RS-485. It features auto-tuning and internal relay, triggered via serial interface.

• Data Structure

Serial ASCII (RS-232C)

Speed: 9600 bps, no parity, 8 data bits, 1 stop bit.

STX (02 HEX)	DATA (10 CARACTERES ASCII)	CR (0D HEX)	LF (0A HEX)	ETX (03 HEX)
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Magstripe Emulation (ABA Track 2)

Speed: 40 IPS simulated (inches per second)

SEQ. OF 10 ZEROS	SS	DATA (14 DIGITS)	ES	LRC	SEQ. OF 10 ZEROS
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Wiegand (26 bits)

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
P	S	S	S	S	S	S	S	S	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	P
	E	E	E	E	E	E	E	E	E	E	E	O	O	O	O	O	O	O	O	O	O	O	O	O	
Bits (E) for calculating the Parity (P) Couple											Bits (O) for calculating the Parity (P) Odd														

• Technical Specifications

Power	Source 110 VAC or 220 VAC - 19,2 VDC (included)
Consumption	350 mA @ 19,2 VDC
Communication Interfaces	Wiegand 26 bits, Magstripe (ABA TK2), Serial RS-232C and RS-485
Reading distance*	Up to 60 cm, with an AcuProx Card ISO Up to 70 cm, with an AcuProx Card Up to 90 cm, with an AcuProx Card HP
Frequency of operation	LF - 125 kHz
Modulation	ASK
Protocol	ISO 11784/85
Transponder	Only reading cards and tags AcuProx
Dimensions	430 x 320 x 45 mm
Weight	1,82 kg
Operating Temperature	-10°C to 60°C
Humidity	10% to 90% (non-condensing)
Protection degree	Not apply
Intallation	External surfaces

* Considering power regulated and stabilized 12V DC installation electromagnetic noise-free environment and without the presence of metal surfaces near the reader source.

• Dimensions [mm]

