



AP-90 is an extended range proximity RFID reader featuring compact dimensions and read range of up to 90 cm. This long range RFID reader will run an excellent power supply and making it particularly suited to access control, car parking and through-wall reading applications. The same basic unit can be configured to output most of the common interface formats, including Wiegand, Mag-stripe and RS-232 serial ASCII and RS485 output, making it easy to upgrade the existing installations.

- Contactless reading;
- Reading distance up to 90 cm;
- Externally programmable interface;
- Potted for environmental protection;
- Weather resistant;
- Easy to install;
- Unique design;
- Relay control;
- Status LED display;
- Tuning LED display.

Serial ASCII (RS-232C)

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

| | | | | |
|--------------|----------------------------|-------------|-------------|--------------|
| STX (02 HEX) | DATA (10 CHARACTERS ASCII) | CR (0D HEX) | LF (0A HEX) | ETX (03 HEX) |
|--------------|----------------------------|-------------|-------------|--------------|

Magstripe (ABA Track 2)

Baudrate: simulated to 40 IPS (inches per second)

| | | | | | |
|-------------------|----|------------------|----|-----|-------------------|
| 10-DIGIT SEQUENCE | SS | DATA (14 DIGITS) | ES | LRC | 10-DIGIT SEQUENCE |
|-------------------|----|------------------|----|-----|-------------------|

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 | E | O | O | O | O | O | O | O | O | O | O | O | O | |
| Bits (E) for calculation of Even Parity (P) | | | | | | | | | | | | | Bits (O) for calculation of Odd Parity (P) | | | | | | | | | | | | |



| | |
|-------------------------|---|
| Frequency | LF - 125 kHz |
| Modulation | ASK |
| Protocol | ISO 11784/85 |
| Card Read Range* | Up to 60 cm, with AcuProx Card ISO Up to 70 cm, with AcuProx Card Up to 90 cm, with AcuProx Card HP |
| Communication Interface | Wiegand 26 bits, Magstripe (ABA TK2), Serial RS-232C and RS-485 |
| Transponder | Read only cards and tags AcuProx |
| Electrical | |
| Operating Voltage | 110 or 220 VAC power - 19,2 VDC (included) |
| Idle Current | 350 mA @ 19,2 VDC |

| | |
|----------------------|---------------------------|
| Environmental | |
| Index of Protection | Not applicable |
| Operating Temp. | -10°C to 60°C |
| Operating Humidity | 10% to 90% non-condensing |
| Physical | |
| Dimension | 430 x 320 x 45 mm |
| Net Weight | 1,82 kg |
| Installation | External surfaces |

* Considering power by regulated and stabilized source of 12 VDC, installation in environments without electromagnetic noise and without the presence of metallic surfaces near the reader.

Purchase Code:
500.177: AP-90 Reader