

# Proximity Reader MF7-ACA

## Instruction Sheet



# Proximity Reader MF7-ACA

The MF7-ACA is a very high performance proximity reader featuring medium range and small dimensions. Making it ideally suited to a wide variety of applications, particularly access control.

<b>Power Requirements</b>	5 Volts regulated DC at 150 mA .
<b>Interface</b>	USB interface with 9600bps, 8, N, 1.
<b>Typical Maximum Read</b>	Range 2~5 cm with Mifare card, in ideal conditions.
<b>Frequency</b>	13.56MHz band (47.48dBuA/m (1.2m))
<b>Transponder</b>	Read Only (For Unique Serial Number / Unique Identifier) Read Only (Mifare Ultralight MF0 ICU1) Read Only (Mifare Standard MF1 ICS50) Read Only (Mifare 4k MF1 ICS70) Read Only (Mifare DESFire MF3 ICD40)
<b>Audio/Visual Indication</b>	Internal LED and Buzzer
<b>Dimensions</b>	8.3 x 4.7 x 1.6 cm
<b>Operating Temperature</b>	-10 to 60 Deg C.
<b>Interface Cable</b>	500 cm

## Data Structure (Serial ASCII)

Baud Rate : 9600,N,8,1

<b>STX(02 HEX)</b>	<b>DATA( 8 or 14 HEX CHARACTERS )</b>	<b>CR</b>	<b>LF</b>	<b>ETX(03 HEX)</b>
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The start character is factory defined as an 'STX' (02 HEX). This is followed by 8 Hex characters (for Mifare Standard MF1 ICS50 · Mifare 4k MF1 ICS70 )or14 Hex characters(for Mifare Ultralight MF0 ICU1 · Mifare DESFire MF3 ICD40)of data . The CR\LF characters serve to bring the received screen text back to the left hand side and on the line below after the data bytes have been sent. The 'ETX' (03 HEX) character denotes the end of the current transmission.

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