



Acre Multi-tech Reader with ACTpro – Wiegand Protocol

This document describes the process for connecting the acre multi-tech reader to ACTpro, based upon the Wiegand protocol. The readers are configured to read the acre supplied LEAF credentials.

1. Reader Detail

The acre multi-tech reader has a built-in auto-detect function, meaning depending on how you wire the reader, it will configure itself accordingly (OSDP / Wiegand), however this guide will focus on using the Wiegand protocol.

Note – If a reader has been connected as OSDP, then it will lock itself to this format, and a config token will be required to revert to Auto-detect mode.
See chapter 4 for further detail on this.

2. Wiring a Reader - Wiegand

The reader is wired in the following way:

Entry Reader:

Reader	ACTpro 1500e / 100e
Red	+12v
Black	0v
Green (D0)	Data / D0
White (D1)	Clock / D1
Blue	Green
Orange	Red

Exit Reader:

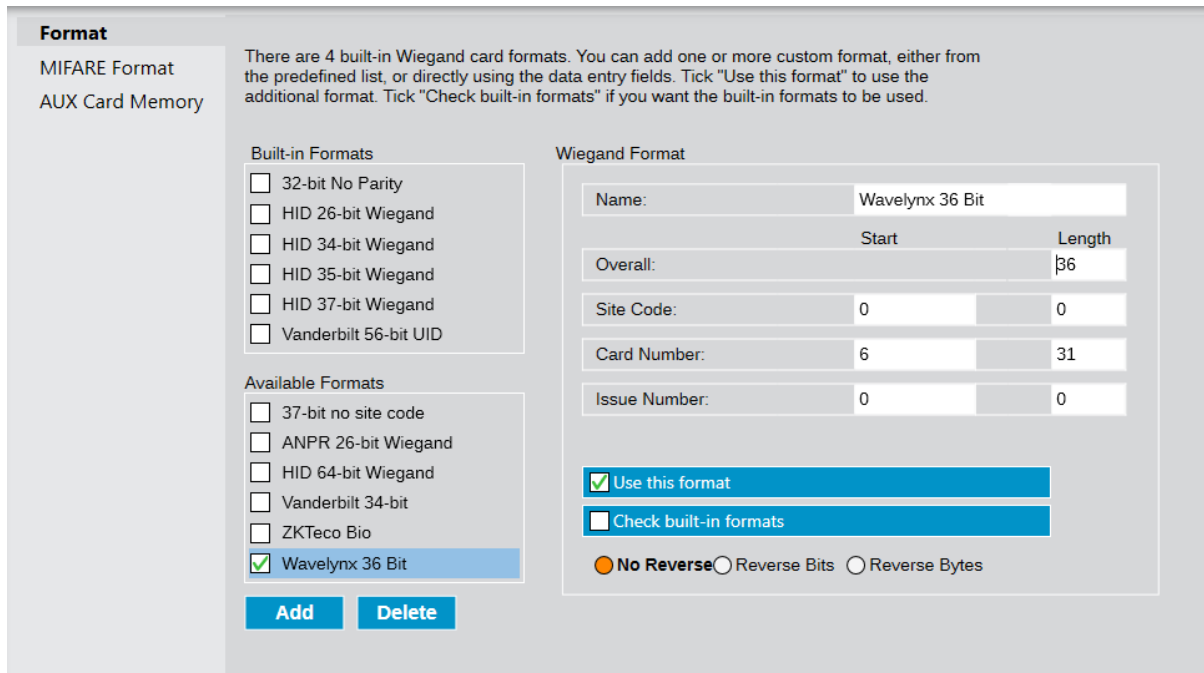
Reader	ACTpro 1500e / 100e
Red	+12v
Black	0v
Green (D0)	Sense
White (D1)	Clock / D1
Blue	Green
Orange	Red

Note – acre multi-tech readers are 12vdc

3. Defining Wiegand Card Format

For the number printed on the acre supplied LEAF cards to be read correctly by the software, the following Wiegand format needs to be defined and applied in the ACTpro software:

ACT Install > Advanced Setup > Card Configuration > Format:



Format

MIFARE Format
AUX Card Memory

There are 4 built-in Wiegand card formats. You can add one or more custom format, either from the predefined list, or directly using the data entry fields. Tick "Use this format" to use the additional format. Tick "Check built-in formats" if you want the built-in formats to be used.

Built-in Formats

- ☐ 32-bit No Parity
- ☐ HID 26-bit Wiegand
- ☐ HID 34-bit Wiegand
- ☐ HID 35-bit Wiegand
- ☐ HID 37-bit Wiegand
- ☐ Vanderbilt 56-bit UID

Available Formats

- ☐ 37-bit no site code
- ☐ ANPR 26-bit Wiegand
- ☐ HID 64-bit Wiegand
- ☐ Vanderbilt 34-bit
- ☐ ZKTeco Bio
- ☒ Wavelynx 36 Bit

Wiegand Format

Name: Wavelynx 36 Bit

	Start	Length
Overall:		36
Site Code:	0	0
Card Number:	6	31
Issue Number:	0	0

☒ Use this format

☐ Check built-in formats

☒ No Reverse ☐ Reverse Bits ☐ Reverse Bytes

Add **Delete**

Overall Length:
36 Bits

Card Number:
Starting Bit - 6
Length - 31

Acre LEAF credentials:

Credential Part Number	Description
50D4-AS	LEAF, EV2 4K ISO Card
50D8-AS	LEAF, EV2 8K ISO Card
50H4-AS	LEAF, EV2 8K ISO Card w/ Mag Stripe
50H8-AS	LEAF, EV2 Dual Frequency Prox + 4K ISO Card
51H8-AS	LEAF, EV2 Dual Frequency Prox + 8K ISO Card
60H8-AS	LEAF, EV2 8K Keyfob
50L4-AS	LEAF, EV3 4K ISO Card
50L8-AS	LEAF, EV3 8K ISO Card



4. Re-enable OSDP Auto-detect

If the reader has previously been connected as an OSDP reader, it will be fixed to OSDP mode, and needs to be “reset” before being usable as a Wiegand reader:

To re-enable Wiegand functionality (OSDP Auto-detect mode), you will need to enter the token via the Configure Mobile App:

Within the Configure App, navigate to:

- Profiles & Cards → Connect to reader → Download
use Token: **c-ejsQmSnJ**
- Apply to reader

Apps are available here:

Android:

https://play.google.com/store/apps/details?id=com.wavelynx.configure&pcampaignid=web_share

Apple: <https://apps.apple.com/gb/app/configure/id6645735994>

SUPPORT INFORMATION



If you have any questions, please contact our Global Technical Services team.
Contact details can be found on our website.