

Terminate AMR170 in RS485 Comms

Overview

The AMR170 terminates in RS485 to take advantage of 1.2 Km long distance link and for a better immunity to electrical noise.

The reader comes with a 30 cm pigtail consisting of 10 cables, in case of RS485 termination 4 wires (Red, Black, Blue, Grey) are required (see Table 1).

The cable need to be terminated to controller Wiegand port 12V and GND point to get power (Red, Black) and terminate to Device (RS485) Port for data. For applications where the reader is mounted at the door side an extension cable is used to join between reader and controller.

The recommended extension cable is Belden 9534 24AWG 0.6mm, 4 core cable foil shield.

Make sure cable is terminated using terminate block.

Reader Wiring and Color Code

Terminal Point Label	Description	Recommended Cable Color
Dev+	RS485+	Blue
Dev-	RS485-	Grey
+V	+12VDC	Red
GND	DC Ground	Black
D0	Wiegand Data 0	Green
D1	Wiegand Data 1	White
ERL	Red LED	Brown
OKL	Green LED	Orange
BUZ	Buzzer	Yellow
	Hold	Purple

Table 1: Termination Point Label

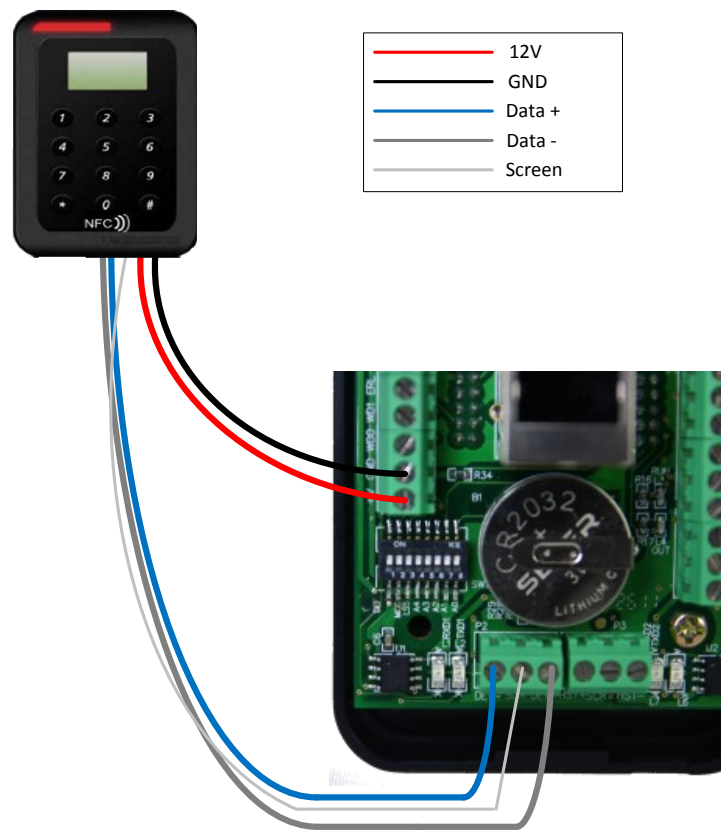


Figure 1. Reader Wiring and Color Code