

# How to configure Black Box IC108A for 2-wire ISC communication

Last Modified on 06/02/2025 3:09 pm EDT

How to configure Black Box IC108A for 2-wire ISC communication

## Procedure Steps

1) To wire the Black Box IC108A for 2-wire communication:

- Connect TxA and RxA with a jumper.
- Connect TxB and RxB with a jumper.
- Connect TxA on the IC108A to port 1 TR1- of the controller.
- Connect TxB on the IC108A to port 1 TR1+ of the controller.

2) Use the following Black Box settings:

- S2 - Off, not terminated
- S3 - Off, not Biased
- W5 - AB, RTS/CTS
- W8 - BC, 2-wire communication
- W9 - C, 0 milliseconds
- W15 - BC, DATA enabled
- W16 - B, Turn Around Delay = 0.1 millisecond
- W17 - D, Driver Enable Hold = 0.7 millisecond
- W19 - No jumper - used for test purposes only
- XW1A - Jumper block must be installed

3) Use the following settings for the controller:

- Set Port 1 jumpers to enable RS-485 2-wire communication.

- Set Port 1 jumpers for Termination off.

- Set Flow Control to off (DIP Switch 5 must be off - this was used during testing by Lenel Technical Support to establish communication with the device).

- Set Baud Rate to 38,400 (DIP Switches 6 and 7 ON).

4) Configure the serial port as follows:

- 38,400 bits per second

- Databits = 8

- Parity = None

- Stop bits = 1

- Flow Control = Hardware

5) For the advanced port settings, the FIFO settings should be default settings (High).

Note that the settings for S2, S3, and the port 1 jumper setting for termination may vary depending on the configuration at the installation site.

## Applies To

OnGuard (All versions)

## Additional Information

None