ALLEN-BRADLEY

Bulletin 2755-DH1 Bar Code Decoder (Series B) in Multidrop Mode

Application Note

Overview

This document explains implementation of the multidrop mode with the **Series B 2755-DH1 Bar Code Decoder**. Multidrop mode allows up to six DH1 decoders to be multidropped into a network. The network uses the RS-232 communication protocol. Each DH1 decoder has an RS-232 driver to "boost" the signal transmitted from that decoder's Host port. This amplification permits a maximum distance of up to 50 feet between DH1 decoders on the network.

Hardware Requirements

Implementation of the procedure described in this application note requires the following Allen-Bradley hardware:

- 2755-DH1 (Series B) Bar Code Decoder and related manuals
- 2755-XXX barcode scanning unit (either gun or wand type)
- Cables as required. Refer to hardware manuals for cable requirements

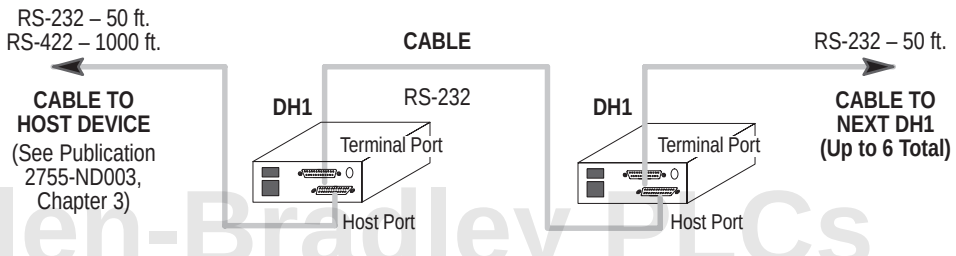
Optionally, a terminal such as a VT100 or a PC running a terminal emulation package such as Procomm® or Windows™ Terminal can be used to view and change configurations. For more information, refer to Chapter 5 in publication 2755-ND003.

Related Publications

This document refers to the following publications, which should be available for reference while working through this application note:

Publication Number	Title
2755-ND003	Bulletin 2755 Multi-Purpose Bar Code Workstation User's Manual (Series B)

Figure 1
Multidrop Network System Overview



Configuration

To implement the multidrop format, you will first need to configure the DH1 decoder using the bar code menus in Chapter 6 of the Multi-Purpose Bar Code Workstation User's Manual (Publication 2755-ND003). Configuration settings should be as listed below:

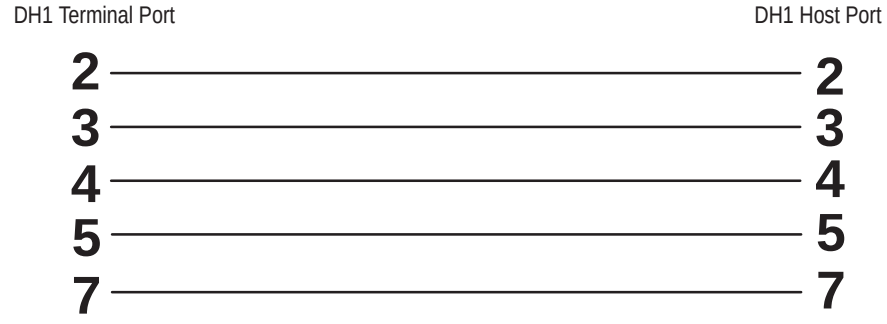
Parameter & Page No. in Manual	Setting
Header or Reader Address (6–20)	Different for each DH1 on the network*
Terminal Port (6-19)	Disabled for each DH1
CTS/RTS (6-18)	Enabled for each DH1
XON/XOFF (6-19)	Enabled for each DH1

* Either a header or a unique reader address should be configured for each DH1 so that the host software can identify which DH1 has sent data.

Important: The changes you make will not appear on the Configuration screen during the current session. You can review your changed settings by exiting configuration, then returning to it.

Cabling

Figure 2
DH1 to DH1 Cable Diagram (See Publication 2755-DN003 for Informaton on Cable Connecting Host Device to DH1)



Publication 2755-2.52 – September 1994