



Installation & Troubleshooting Data

Bulletin 1300-SC Signal Converter

General

The Bulletin 1300-SC RS-232 to RS-422 signal converter (Figure 1-1), is used as a communication interface between a personal computer and the Allen-Bradley Bulletin 1395 Digital DC Drive. It provides both electrical protocol conversion and isolation between the personal computer and the Drive.

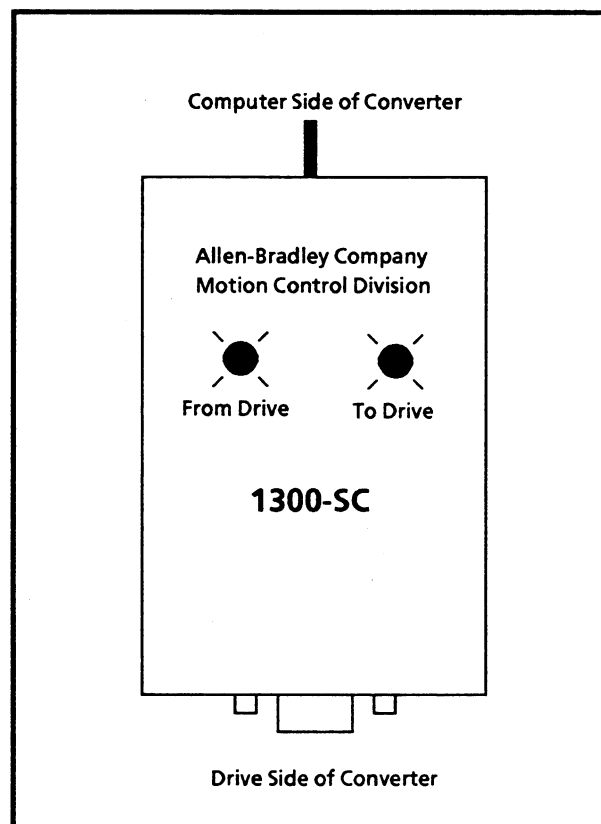


Figure 1-1. Bulletin 1300-SC Signal Converter

Installation

Refer to Figure 1-1 and install the Bulletin 1300-SC converter as follows:

1. Connect the 25 pin converter connector cable to the personal computer. For some computers, it may be necessary to use a 9-pin to 25-pin adapter.



WARNING: Extreme care must be used when connecting or disconnecting the signal converter to or from the Drive to guard against shock hazard due to contact with other live components.

IMPORTANT: The cable between the computer and the converter should be as short as possible to minimize sensitivity to noise. Do not use extender cables on the computer (RS-232) side of the converter.

2. Connect the 9-pin D-Shell side of the converter to the Drive DHT connector using the supplied cable. If a longer cable is required, contact Allen-Bradley.

Standard Cables - The following cables are available from Allen-Bradley:

Catalog Number Length

1300-CL10	10ft (supplied with the signal converter)
1300-CL20	20ft
1300-CL50	50ft



WARNING: The Allen-Bradley cables are specifically designed and tested for use with Allen-Bradley Digital Drives. Only approved Allen-Bradley cables are to be used on the Drive side of this converter. Failure to comply may result in erratic drive operation and personal injury or equipment damage.

3. Once installed, ITS uses the signal converter to communicate with the Drive. Refer to the ITS On-Line command for details. If ITS indicates a drive communication fault while attempting to go **On-Line** refer to the troubleshooting section.

Troubleshooting

The signal converter is operating properly when both LED's flash during **On-Line** communication with the Drive. If one or both LED's Do Not flash during attempted communication, a hardware problem may exist between the Drive, the converter or the computer.

**Troubleshooting
(continued)**

If neither LED flashes during attempted communications:

1. Check to make sure that the converter is connected to the serial port of the computer. The ITS SETUP\COMM PORT command specifies which serial port will be used by ITS to communicate with the Drive.
2. Check to make certain that all cables are securely attached to the computer, converter, and the Drive.
3. The converter is powered from the Drive. Check to make sure that the Drive has 115 V AC power applied to it.
4. Check to make sure the computer serial port is operating properly by connecting another device to it and exercising the port.
5. Check the cables to make sure they are not damaged. The cable pinouts are listed in the appendix.
6. The signal converter may be malfunctioning. **DO NOT** attempt to open or repair the converter. Return the unit to an authorized Allen-Bradley service center for repair or replacement.

If only one LED flashes:

1. Check to make sure all cables are securely attached to the computer, converter, and Drive.
2. Check to make sure the computer serial port is operating properly by connecting another device to it and exercising the port.
3. Check the cables to make sure they are not damaged.
4. The signal converter may be malfunctioning. **DO NOT** attempt to open or repair the converter. Return the unit to an authorized Allen-Bradley service center for repair or replacement.



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