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Help Content This article is a guide to connecting Allen Bradley MicroLogix 1200 PLC to Fernhill SCADA. Allen Bradley MicroLogix 1200 PLC has one or two serial ports that can be used to communicate with Fernhill SCADA. Communication Channel 0 is an 8-pin mini-ding outlet located in the top left of the device. The additional Prog/HMI port is an 8-pin mini-ding outlet located on the left side of the device. Note: Only selected models support the Prog/HMI port. To connect MicroLogix 1200 PLC to Fernhill SCADA, the following steps are needed: get a connection cable and connect MicroLogix 1200 PLC to a Windows computer running the RSLogix 500. Set up MicroLogix 1200 PLC with RSLogix 500. Set up Fernhill SCADA. MicroLogix 1200 PLC connectivity cables can connect directly to the serial port on the PC. The serial port on the PC is usually a 9 pin D-subminiature connector. These cables are suitable for connecting PLC to a computer with a 9 pin D-sub-subminiature connector: 1761-CBL-AP00 - 0.5 m length 1761-CBL-PM02 - 2 m length 1761-CBL-PM05 - 5 m length 1761-CBL-PM10 - 10 m length As 10 The length of the Alternative you can create your own cable with this wiring: MicroLogix 1200 PC GND 2 5 GND RTS 3 8 CTS RXD 4 3 TXD DCD 5 1 CTS 6 7 RTS TXD 7 2 RXD 4 and 6 DTR and DSR Note: All other contacts not shown on the above chart, chart above have no connection. Set up the MicroLogix 1200 Serial Port with the RSLogix 500 you can use the RSLogix 500 to customize the MicroLogix 1200 Serial Port. Open the project in the RSLogix 500 and in the project window choose channel configuration: Double click on the channel configuration branch to open the channel configuration window: Note: Fernhill SCADA Allen Bradley Driver supports DF1 Full Duplex and DF1 Half Duplex Slave. Select Tab Channel 0: Field Configuration Notes: For the Driver Field choose either DF1 Full Duplex or DF1 Half Duplex Slave. If you're using DF1 Half Duplex, enter the site address. Choose whether to use even Parity or No Parity. Even Parity offers improved detection of communication errors in exchange for a few large overheads. Choose a bad bet. Choose a method for detecting errors. Leave the remaining fields at the defaults. Click OK to save the configuration. If you've changed the channel 0 configuration away from default, you can get a loss of communication warning. Ignore the warning and, once the link is lost, change the configuration of the AB_DF1 in RSLinx to match. When you change your default communication settings, it's easy to lose touch with both Fernhill SCADA and RSLinx. You can recover from this situation with the Communications Toggle Push button next to Channel 0. For more information to MicroLogix 1200 Programmable Controllers User Guide 1762-UM001. Setting up Fernhill SCADA there are two methods for setting up Fernhill SCADA to communicate with 1200 PLC: Manual Configuration Default Communication Settings For Channel 0 on MicroLogix 1200 are: Value Baud Rate 19200 Protocol DF1 Full Duplex Error Check CRC Node Address 1 Communication Settings for Port Prog/HMI are: Value Baud Rate 19200 Protocol DF1 Complete Duplex Error CRC Check Node Address 1 Fernhill SCADA Configuration, which corresponds by default to Channel 0 and Prog/HMI Port: Additional information by The Allen Bradley Serial Channel For information on The Allen Bradley Serial Channel Configuration. Allen Bradley PLC For information on The Allen Bradley PLC Tag Configuration. Serial Communications For background information on serial communications. Allen Bradley Driver For information on Allen Bradley Driver. Glossary For the meaning of the terms used in Fernhill SCADA. 1 2 3 4 Table Of Contents 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 Help Content This article is a guide to connecting Allen Bradley MicroLogix 1200 PLC to Fernhill SCADA. Allen Bradley MicroLogix 1200 PLC has one or two serial ports that can be used to communicate with Fernhill SCADA. Communication Channel 0 is an 8-pin mini-ding outlet located in the top left of the device. 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