

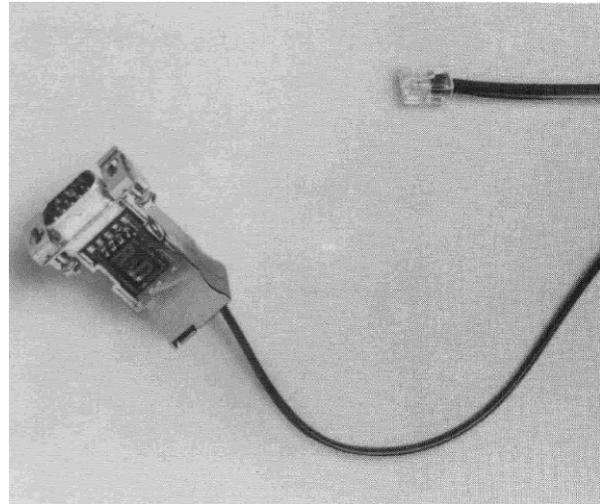


# Niobrara MD422 Smart Cable

The Niobrara MD422 Smart Cable connects the Square D® or IDEC Micro-1 PLC to a SY/MAX® compatible RS-422 port. The cable has a miniature, self powered, protocol converter built into the RS-422 end. The cable can be used to connect the Micro-1 to a Niobrara **SPE4**, an RS-422 operator interface and in other data communications applications where the Micro-1 protocol must be interfaced to standard equipment.

The MD422 is functionally equivalent to the combination of a CC-100 differential cable, an NLU-10, an RIU-10, and an FCB-15 cable except that the MD422 does not perform the hardware echo function provided by the RIU-10 for networking purposes.

The MD422 is only used with a single Micro-1 processor. The RS-422 end features Square D® compatible slide locks like the CC-100 and the Micro-1 end has the same miniature modular connector as the FCB-15. The Micro-1 powers the MD422.



Niobrara manufactures a similar product (the **SCMID** or the **SCM1R**) to connect the Micro-1 to the RS-232 port of a personal computer for programming. Models are also available for the Square D® Model 50 (**SC50D** or **SC50I** for RS-232 connection and **ID422** for RS-422 connection), the IDEC FA2J and other popular PLCs.

The MD422 is normally 6 feet long but other lengths (up to 25 feet) are available. See price list for ordering information. The MD422 may be extended by connecting a **DE1** SY/MAX® extension cable or a **DC1** (CC100 equivalent) cable with an **SA9F** gender changer to the 9 pin end of the MD422. An MD422 with slide locks to fit a SY/MAX® style RS-422 port is an **MD422P**, an MD422 with screws to fit most operator interfaces is an **MD422S**.

## Installation:

1. Connect the nine-pin connector to an RS-422 port on the **SPE4**, NIM, operator interface, or other RS-422 device.
2. Connect the eight-pin connector to the programmer port of the Micro-1.
3. Refer to documentation for connected products.

**Cable Pinouts:**

The **DE9** end of the cable is compatible with Square D® SY/MAX® RS-422 ports. The pinout is as follows:

1	—————	RXD- (data out of PLC)
2	—————	RXD+
3	—————	TXD- (data into PLC)
4	—————	TXD+
6	□	
7	□	

**Ordering Information:**

For an ID422 with slide locks to fit a SY/MAX® style connector order an **MD422P**.

For an ID422 with screws to fit many operator interfaces order an **MD422S**.

If an ID422 is ordered with no suffix it will be an **MD422P**.

**Notes:**

**For Local Support and Sales CALL:**

