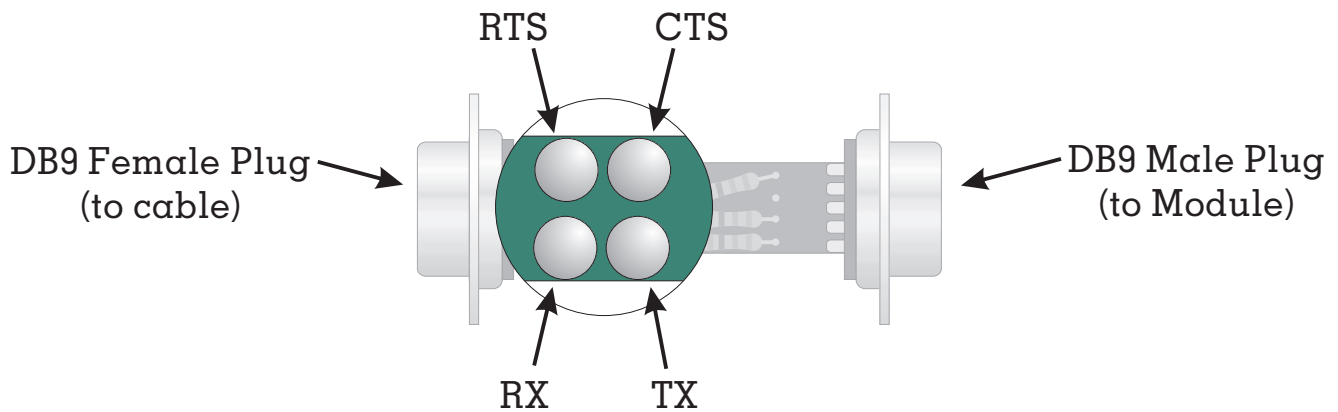


SDLM Data Line Monitor

The Niobrara SDLM is a small, easy to use device that indicates SY/MAX[®] communications activity at a glance. It is useful as a diagnostic tool to help identify and isolate communications problems on a SY/MAX compatible RS-422 data line. The SDLM has a 9-pin female D-subminiature connector at one end and a 9-pin male connector at the other. It is intended to be inserted between a SY/MAX PLC or peripheral module and a SY/MAX compatible RS-422 cable connected to that device.

Communications are indicated by four 2-color LEDs on the SDLM. One LED indicates transmit signal from the processor or module to which the SDLM is connected; one LED indicates signal received by this device. Similarly, the other pair of LEDs indicate the state of RTS and CTS. The physical layout of the SDLM is as follows:



The following conditions are true for a port connected to the male DB9 end of the SDLM (right end when the user is facing the LEDs).

The indicator LEDs for both RTS and CTS are red when asserted and green when not asserted. In some cases (depending on port configuration), the port may not transmit when the CTS indicator is green.

When TX is enabled, the indicator LEDs for both TX and RX are green in the MARK state and red in the SPACE state. In normal operation, these LEDs will be green.

Any unlit LED indicates an open cable wire. In some cases (depending on port configuration), the TX indicator may be unlit if the line is tri-stated while in multidrop operation.