

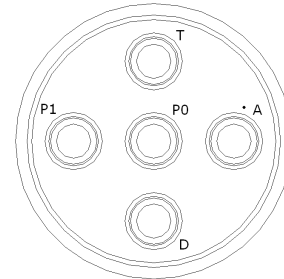
mV-RS485 Adapter Quick Start Guide

Overview

The mV-RS485 Adapter offers a convenient way to connect analog sensors to the digital ports on an SDL data logger. It is used to convert analog mV readings into Modbus RS-485.



SDL500 Sensor Bulkhead Port Diagram



What's Included

- mV-RS485 Adapter

Length	0.5 m (19.7 in)
Diameter (OD)	35.6 mm (1.4 in)
Power Supply	5V +/-10%
Current Draw	6.5mA
Voltage Input	0-2.5V
Interface	RS-485 Modbus RTU (19200 baud, N81)
Analog-Digital Converter	24 bit sigma-delta
Connection Type	sensorBUS Connector

Specifications

Connecting a Sensor to the Adapter

1. Apply a thin film of grease to the external o-ring and confirm that internal o-ring is in place and free of debris.
2. Connect the sensor's plug to the receptacle end of the Adapter.

SDL500 connection

The mV-RS485 Adapter can be connected directly or via UW cables to SDL500 data loggers on port P0, P1, T or D.

Configuring the Adapter

1. In iChart, select **Advanced | mV-RS485 Adapter | Setup...**
2. Ensure that the COM port, connection type, and Modbus Address are correct. Then click **Connect**.
3. Go to the **Configuration** tab.
4. Check the edit boxes for Point 1 and 2.
5. Enter the appropriate calibration values for mV1, Value1, mV2, and Value2. **Note:** For sensor specific information on calibration values please see the online Knowledge Base at <http://nexsens.com/knowledgebase/article.htm>
6. Click **Apply** and **Close** to exit the setup window.

Adding a Sensor to iChart using the Adapter

1. Go to **File | New Project...** or if adding to an existing iChart project, select **Project | Setup Device Wizard**.
2. At step 3 select NexSens in the drop-down menu, mv-485 Adapter from the product menu, and click **Add**.
3. Select the appropriate parameter from the list and select the unit of measurement from below the list. Click **Add**.
4. Enter the correct Modbus address (default address = 1). Click **OK**.
5. Follow the wizard and proceed to program the data logger to start collecting data.