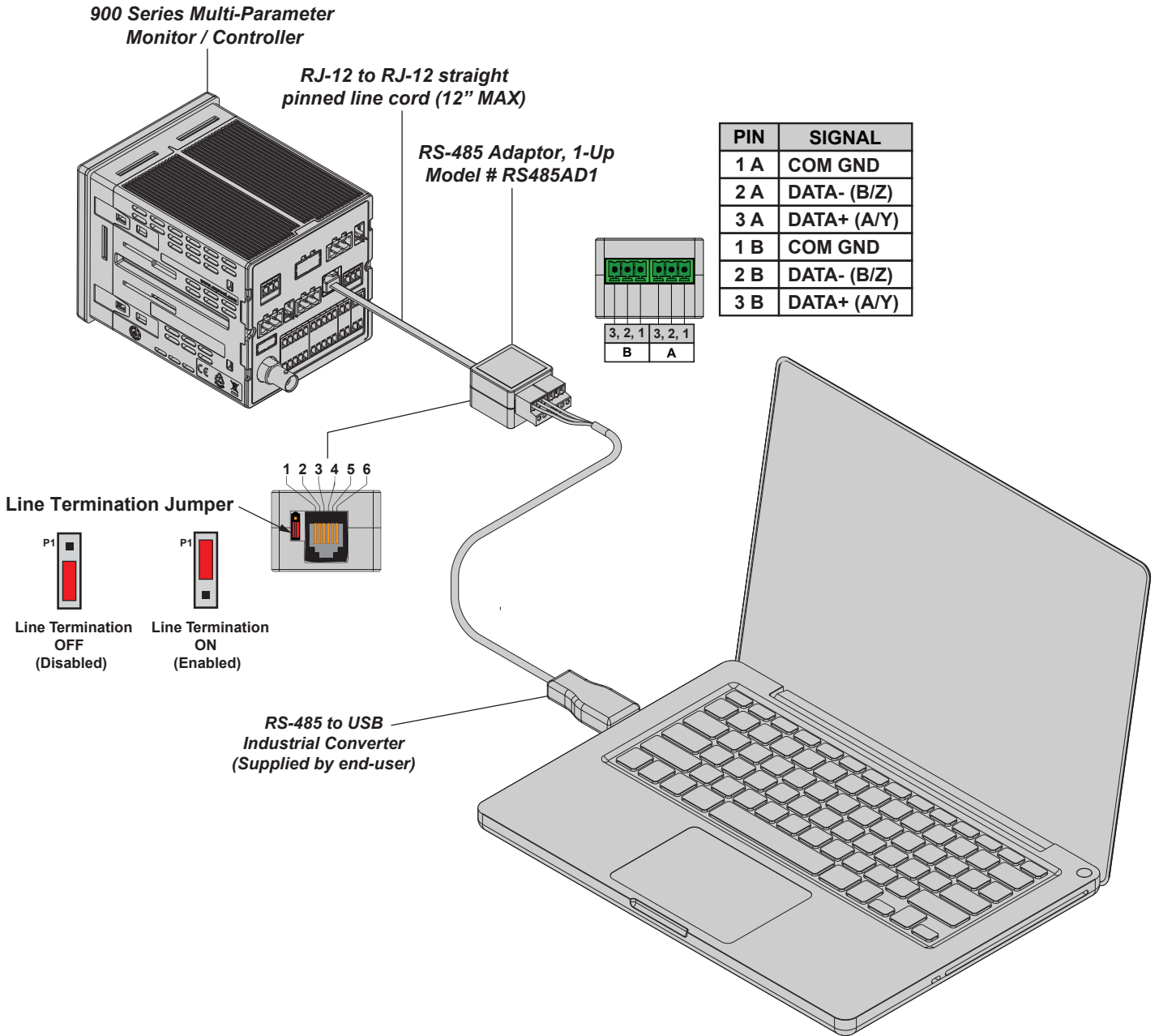


Myron L[®] Company RS-485 Adapter Model RS485AD1 Installation Instructions



Enable/Disable Line Termination on the RS-485 Adapter:

Terminating Resistor: 120 Ω

Termination is usually not required for cable lengths <100'.

If you use terminations, they must be applied to both ends of the cable (the RS485AD1 and the user-supplied RS-485 to USB converter).

Follow industry guidelines for your application to determine if line termination is required.

Use only RS-485 twisted pair wire (example: Belden 3105A).

Connect the three wires of the RS-485 to port A or port B as shown above.

For a chart of RS-485 Streaming Serial Output Data, see the reverse side of this document.

RS-485 Streaming Serial Output Data in Order of Transmittal (data is comma delimited):

Data Label	Example of Data	Data Description	Data Detail
Date and Time	10/29/21 14:15:15	Date and Time value from the 900	
Location Name	TC DESK	Location Name stored in the 900	
COND/RES 1 Value	990.719	Primary Measurement Value, Sensor: Cond/Res1	If no sensor, then reported reading will be -3000.00 (equivalent to N/A) ¹
COND/RES 1 Unit	ppm	Primary Measurement Unit, Sensor: Cond/Res1	
COND/RES 1 Temp. Value	23.174	Secondary Measurement Value (Temperature), Sensor: Cond/Res1	If no sensor, then reported reading will be -1.000 (equivalent to N/A) ¹
COND/RES 1 Temp. Unit	C	Secondary Measurement Unit (Temperature), Sensor: Cond/Res1	
COND/RES 2 Value	164.008	Primary Measurement Value, Sensor: Cond/Res2	If no sensor, then reported reading will be -3000.00 (equivalent to N/A) ¹
COND/RES 2 Unit	ppm	Primary Measurement Unit, Sensor: Cond/Res2	
COND/RES 2 Temp. Value	3.827	Secondary Measurement Value (Temperature), Sensor: Cond/Res2	If no sensor, then reported reading will be -1.000 (equivalent to N/A) ¹
COND/RES 2 Temp. Unit	C	Secondary Measurement Unit (Temperature), Sensor: Cond/Res2	
MLC pH/ORP Value	6.934	Primary Measurement Value, Sensor: MLC pH/ORP	If no sensor, then reported reading will be -3000.00 (equivalent to N/A) ¹
MLC pH/ORP Unit		Primary Measurement Unit, Sensor: MLC pH/ORP	pH unit: Blank ORP unit: mV
MLC pH/ORP Temp. Value	4.199	Secondary Measurement Value (Temperature), Sensor: MLC pH/ORP	If no sensor, then reported reading will be -1.000 (equivalent to N/A) ¹
MLC pH/ORP Temp. Unit	C	Secondary Measurement Unit (Temperature), Sensor: MLC pH/ORP	
mV IN Value	6.993	Primary Measurement Value, Sensor: mV IN	If no sensor, then reported reading will be -3000.00 (equivalent to N/A) ^{1,2}
mV IN Unit		Primary Measurement Unit, Sensor: mV IN	pH unit: Blank ORP unit: mV
mV IN Temp. Value	96.197	Secondary Measurement Value (Temperature), Sensor: mV IN	If no sensor, then reported reading will be -1.000 (equivalent to N/A) ^{1,2}
mV IN Temp. Unit	C	Secondary Measurement Unit (Temperature), Sensor: mV IN	
RTD Temp. Value	96.195	Primary Measurement Value, Sensor: RTD	If no sensor, then reported reading will be -3000.00 (equivalent to N/A)
RTD Temp. Unit	C	Primary Measurement Unit, Sensor: RTD	
N/A	-1.000	Not Used	Not Used
N/A	C	Not Used	Not Used
4-20 mA IN Value	0.004	Primary Measurement Value, Sensor: 4-20mA In	
4-20 mA IN Unit	mA	Primary Measurement Unit, Sensor: 4-20mA In	
N/A	-1.000	Not Used	Not Used
N/A		Not Used	Not Used
Flow/Pulse Value	0.000	Primary Measurement Value, Sensor: Flo/Pulse	
Flow/Pulse Unit	gpm	Primary Measurement Unit, Sensor: Flo/Pulse	
Flow/Pulse Secondary Value	0.000	Secondary Measurement Value, Sensor: Flo/Pulse	Value of Flow or Volume -1.000 if primary measurement is Pulse
Flow/Pulse Secondary Unit	Gal	Secondary Measurement Unit, Sensor: Flo/Pulse	Unit of Flow or Volume Blank if primary measurement is Pulse
% Rejection Value	83.446	Primary Measurement Value, Sensor: % Rejection	N/A if % Rejection is disabled on the 900
% Rejection Unit	%	Primary Measurement Unit, Sensor: % Rejection	N/A if % Rejection is disabled on the 900
N/A	-1.000	Not Used	N/A
N/A	C	Not Used	N/A

¹ A reading of “-3000” for a primary measurement or “-1.000” for a secondary measurement is an indication that there is no sensor detected, or there is an error in settings.

² If the mV IN input channel's measurement type is set to pH (with temperature compensation), the secondary measurement (temperature) will be the same as the RTD input channel. If there is no temperature sensor connected to the RTD input, both the primary and secondary mV IN measurements will indicate no sensor detected.

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