

2100 Series Sampler Interface Installation Instructions

Overview

The 2100 Series Sampler Interface Cable, PN 60-2004-260, provides a connection that lets you use flow information from a 2150 Area Velocity Module to pace an Isco sampler.

One end of the 25 foot cable connects to the bottom of a 2150 module stack; the other end connects to a 3700, GLS, or 6700 Series sampler (refer to Figure 1). The actual interface is contained in a small plastic box that is within the connect cable itself.

The device will send out a flow pulse for every 100 gallons when the 2150 is configured for volume units of GAL, CF, AF, or MGAL. It will send out a flow pulse for every 500 liters of flow when the 2150 is configured for volume units of L or M3.

To conserve power, the 2150 is generally not set to be continually active. Therefore, accumulated pulses will be sent to the sampler every fifteen minutes, or at the data storage rate you have set in Flowlink for the module.

Technical Specifications

The technical specifications for the 2100 Series sampler interface cable are contained in Table 1 below.

Operating Temperature	-22° to 140°F	-30° to 60°C
Storage Temperature	-40° to 140°F	-40° to 60°C
Enclosure (self-certified)	NEMA 4X, 6P IP68	
Data Rate	78K/second	
Power	6.6 to 16.6 volts at 30 mA, supplied by the sampler	
2150 Software Version	Requires version 1.11 or higher	

Note

Your 2150 must have software version 1.11 or higher to use the sampler interface cable.



Figure 1: Sampler Interface Cable

Technical Specifications (cont.)

The connector ends are detailed in the following illustrations and tables.

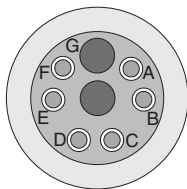


Figure 2: 2100 Series Module Connector

Pin	Name	Description
A	NETA	Neuron differential transceiver Data A
B	NETB	Neuron differential transceiver Data B
C	Not connected	
D	Not connected	
E	Not connected	
F	Not connected	
G	Key	Aligns connector pins

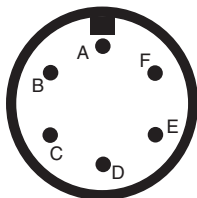


Figure 3: Sampler Connector, 6-Pin Female, Sealed

Pin	Description
A	+12 volts DC
B	Ground
C	Flow Pulses Out
D	Not connected
E	Not connected
F	Not connected

Installation

Follow the steps below to install the sampler interface cable:

1. Before connecting the sampler interface cable, make sure the 2150 module is set to measure flow in the desired unit of volume.

A flow pulse will be sent out for every 100 gallons when the 2150 is configured for volume units of GAL, CF, AF, or MGAL. A flow pulse for every 500 liters of flow will be sent when the 2150 is configured for volume units of L or M3.

2. Plug the 2100 Series module connector end of the cable into the bottom connector of the 2150 module or the bottom connector of a 2191 battery module that is attached to the 2150.

If you want the flow information to come from a specific module within a stack, you must first connect the sampler interface cable to a stack that contains only that module.

3. Plug the sampler connector end of the cable to the flow meter connector on the 3700, GLS, or 6700 Series sampler.

The sampler must be set for flow paced sampling in order to initiate a sample event based on the number of pulses received. The sampler will only be able to read flow pulses from the 2150 module; it will not be able to measure the actual units of flow volume.

4. If you have other 2100 Series modules, add them to the stack at this time.
5. No user configuration is required in Flowlink. To verify which module is connected to the sampler via the interface cable, click on the Total Flow tab of the Site View window. Then click on the Diagnostics button to display the Text Report window. If the sampler interface is connected, you will see information similar to the text below:

```
Sampler pacing interface:
Software version 1.11
Address 02:7F:05
Neuron ID 000402892401
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