



Battery Bank Monitoring P-SCM

Introduction

The following document details how to connect and configure a voltage monitoring P-SCM for the SymphoniePRO to monitor a Remote Power System (RPS) or an external battery.

Required Equipment

- Small flathead screwdriver
- 2C cable of appropriate length
- #9135 P-SCM card

Wiring

- Select an empty analog P-SCM channel (20-26).
- Run a 2C cable from the external battery to the wiring panel as follows:

External Battery Terminals	SymphoniePRO Ch 20-26
+	SIG+
-	GND

SymphoniePRO Desktop Application Configuration

- Navigate to the correct channel that was previously wired.
- Edit the *Description* at the top of the center column to read Battery Bank Monitor (or similar).
- Change the dropdown menu on the right side labeled *SymphoniePRO Signal Conditioning Module (P-SCM)* to **P-SCM #9135, (0 to 30) V, SE Input, Constant 12V EXC.**
- On the left side, change the *Data Logging Mode* dropdown to **Statistics**.

The screenshot shows the configuration interface for channel 26. The top bar displays: 26, Statistics, Analog, Battery Bank Monitor, 0.00m, 0.0° (N), 1, 0, V.

The configuration is divided into three main sections:

- Data Logging Mode:** Set to **Statistics** (indicated by a green power icon).
- Channel Type:** Set to **Analog**.
- Description:** **Battery Bank Monitor**
- Serial Number:** (Empty field)
- Height:** 0 Meters
- Boom Bearing:** 0 Degrees
- Sensor Transfer Function:**
 - Scale Factor: 1 V per V
 - Offset: 0 V
 - Units: V
- SymphoniePRO Signal Conditioning Module (P-SCM):** **P-SCM #9135, (0 to 30) V, SE Input, Constant 12V EXC**

A note on the left states: "A channel of type Analog records the following statistical information: Average, Standard Deviation, Min, Max."