

INSTRUCTIONS

NRG Sensor Connections to SymphoniePLUS3

Introduction

These instructions will assist you in connecting standard NRG sensors to a SymphoniePLUS3 logger and also provide the default slope and offset for each sensor type. These default values are preloaded in the SymphoniePLUS3 logger (except for iPack voltmeter) and the Symphonie Data Retriever (SDR) software. The values are included here as a quick reference only - please see the Symphonie manual for logger channel configuration.

Default Slope and Offsets for SymphoniePLUS3

Sensor Default Slope and Offsets for use with SymphoniePLUS3			
Sensor	Slope	Offset	Scaled Units
NRG #40C Anemometer	0.765	0.35	m/s
NRG #200P Wind Direction Vane	0.351	0	degrees
NRG #110S Temperature Sensor with Radiation Shield	0.136	-86.38	C
NRG #BP20 Barometric Pressure Sensor	0.4255	650	mB
Relative Humidity Sensor	0.097	0	%RH
Li-Cor #LI-200SZ Pyranometer	see calibration sheet	see calibration sheet	W/sqm
Rain Gauge-Tipping Bucket	0.254	0	mm
RMY Vertical Prop Anemometer	0.0293	-15.00	m/s
P2546A Windesensor Anemometer	0.62	0.27	m/s
iPack Voltmeter SCM	0.021	0	Volts

SymphoniePLUS3 loggers and SDR software come loaded with default slope and offset values for our standard sensors. Please note that these settings are specific to Symphonie, SymphoniePLUS, and SymphoniePLUS3, and may not be the same values used for other data loggers. Some sensors are provided with sensor specific values that may be used in place of these defaults.

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