PowerPACK Series

Bluetooth Auxiliary Adapters for Pyxis Sensors

Description

The Pyxis PowerPack series Bluetooth auxiliary adapters are uniquely designed to provide additional power budget and wireless communication to drive Pyxis inline sensors to a receiving microprocessor controller or PLC with limited power supply. Offered in a single-channel, dual-channel and four-channel format, this auxiliary adapter has a built-in power supply with 20-Watt capability. Each PowerPack is also integrated with built-in Bluetooth interface, allowing users to wirelessly pair to all sensors connected with the uPyxis APP for Mobile Phone and Desktop for real-time diagnosis, calibration and configuration.

PowerPack auxiliary adapters can be utilized in 100VAC to 240VAC power format, with direct plug in design. PowerPack 1 offers a single channel input and output quick adapter cable, containing 4-20mA interface, while PowerPack 2 and PowerPack 4 extends this capability to two and four individual input and output connection adapters. Additionally, PowerPack 2 offers RS-485 signal passthrough as well. Each input is specifically designed for direct connection to standard (7-Pin) Pyxis inline sensors and output is designed to connected to the Pyxis standard flying lead cable provided with the PowerPack unit, then terminated to the receiving controller. The sensor input glands (bottom of box) and 4-20mA / RS-485 signal output glands (right side of box) are mapped one-to-one by the numbered labels. Conversion adapters for Pyxis 5Pin and 8Pin sensors are also available allowing PowerPack to be used with all Pyxis sensor formats.

A typical setup procedure involves the user connecting one ST-500 sensor, one ST-720 sensor and one ST-712 sensor to the sensor input glands 1, 2 and 3 (bottom) and then connects the output cable from 4-20mA signal glands 1,2 and 3 (right) to controller 4-20mA input channels. The last step is to connect the power plug to the power outlet. PowerPack comes with standard 110V USA plug adapter, however, unit is fully functional with 240VAC operation using a standard outlet conversion adapter or allows for direct wiring internally.

Typical Applications

The Pyxis PowerPack Series bluetooth adapters are ideal for use in process or water treatment applications with using Pyxis inline sensors and microprocessor controllers which may be limited to <1.5watt power supply per analog input channel. With ease of installation in mind, PowerPack was designed to be rapidly deployed for single or multiple Pyxis sensor applications requiring extra power and Bluetooth interface for uPyxis APP use.

Features

- Individual or up to four Pyxis inline sensors can be connected
- Up to 4x 4-20mA output signals can be output simultaneously to any controller
- RS-485 also provided in PowerPack – 2
- Bluetooth® Version 4.1 for wireless sensor diagnosis, cleaning and configuration via uPyxis APP
- Wide range external power input (100-240VAC)
- ABS enclosure with IP54 protection

Specifications

Items	PowerPack 1	PowerPack 2	PowerPack 4
P/N	MA-BLE-1	MA-BLE-2	MA-BLE-4
Power Input	100-240VAC w/1.0 AMP Fuse		
Power Output	24VDC, 20W		
Signal Input Adapter	1x 4-20mA (7Pin Female)	2x 4-20mA & RS-485 (7Pin Female)	4x 4-20mA (7Pin Female)
Signal Output Cable	1x 4-20mA (Provided w unit)	2x 4-20mA & RS-485 (Provided w unit)	4x 4-20mA (Provided w unit)
Enclosure Material	ABS		
Enclosure Rating	IP54		
Storage Temperature	32 - 122 °F (0 - 50° C)		
Operational Temperature	32 - 122 °F (0 - 50° C)		
Dimension	5.1"H x 3.1"W x 2.75"D	4.9"H x 4.9"W x 2.95"D	6.9"H x 6.9"W x 2.95"D
Weight	600 g (1.32 lbs.)	654 g (1.4lbs)	1320 g (2.9 lbs.)
Certificates	CE, RoHS		

*With Pyxis' continuous improvement policy, this specification is subject to change without notice.

Order Information — P/N

PowerPack-1 *(Single Channel Powered Bluetooth Adapter w 1x4-20mA)* — MA-BLE-1

PowerPack-2 *(Dual Channel Powered Bluetooth Adapter w 2x4-20mA & RS-485)* — MA-BLE-2

PowerPack-4 *(Four Channel Powered Bluetooth Adapter w 4x4-20mA)* — MA-BLE-4

Accessories — P/N

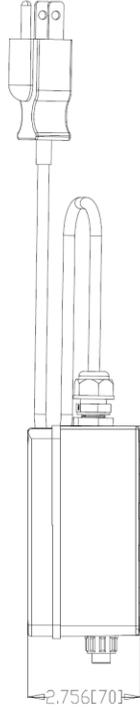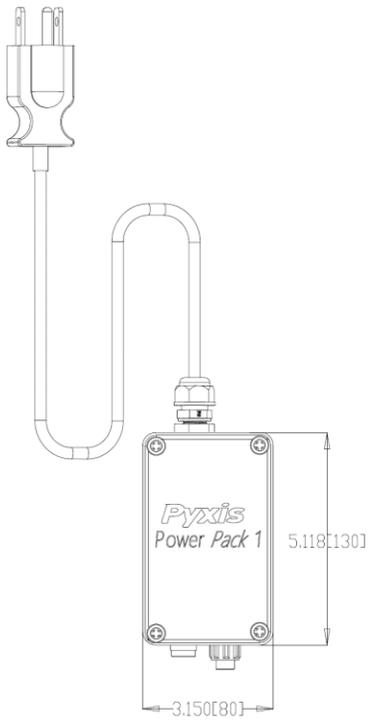CC-78 (7Pin Male to 8Pin Male Adapter for 8 Pin Pyxis Probes) — 50771

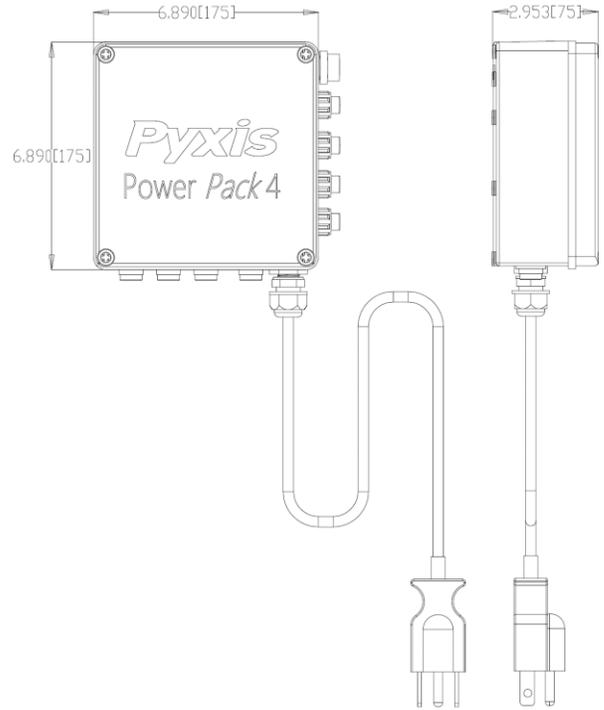CC-57 (7Pin Male to 5Pin Male Adapter for 5 Pin Pyxis Probes) — 50748

POWER*Pack*-1 Dimensions

POWER*Pack*-4 Dimensions

POWER*Pack*-2 Dimensions