



**Broadcast Devices, Inc.**

***PSW-100 5 VDC – 0-15 PSI Line Pressure Sensor***

**Technical Reference Manual**

**Broadcast Devices, Inc.**

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## **I. Introduction**

The PSW-100 Remote Meter Display is designed as an accessory for the DPS-100D True RMS Power Meter series from Broadcast Devices, Inc. It can also be used as a stand-alone sensor for application to most modern remote control system metering inputs. The PSW-100 requires 5 VDC to operate and provides a 0-4.5 VDC output relative to 0-15 pounds per square inch of pressure (PSI).

## **II. Installation and Setup**

The PSW-100-5VDC sensor is designed to screw into a standard pressure port on pressured transmission line. Find the desired location and prepare the end of the PSW-100 with Teflon tape to insure a good seal. Next tighten the sensor into the pressure opening. Let the dehydrator or nitrogen tank re-pressurize the system. Next connect the PSW-100 wiring as shown in the accompanying diagram. First connect the ground (Black) wire to the remote control system common. Next attach the signal (White) wire to the desired metering input of the remote control system. Next, plug in the accompanying 5 VDC power pack to energize the sensor. Use a DMM to measure between ground and signal wires to determine the output voltage. It should be between 0-4.5 VDC relative to 0-15 PSI. Scale the reading according to the remote control manufacturer's instructions. This should complete the installation of the PSW-100 5 VDC Line Pressure Sensor.

## IV. Warranty

Broadcast Devices, Inc. products are warranted against failure due to faulty materials or workmanship for a period of one year from the date of shipment from Broadcast Devices, Inc. dock. The warranty covers repair or replacement of defective parts at the factory, provided the unit has been returned prepaid by the user. All shipments to the factory shall have affixed to the outside of the container a return authorization number obtained from the factory. The above warranty is void if the unit has been modified by the user outside of any recommendations from the factory or if the unit has been abused or operated outside of its electrical or environmental specifications. If customer conducted field tests suggest that the unit may be faulty, whether or not the unit is in warranty, a full report of the difficulty should be sent to Broadcast Devices, Inc. factory. The factory may suggest further tests or authorize return for factory evaluation. Please email: [customer.service@broadcast-devices.com](mailto:customer.service@broadcast-devices.com)

Units sent to the factory should be well packed and shipped to Broadcast Devices, Inc. – Check [www.broadcast-devices.com](http://www.broadcast-devices.com) for current shipping address. Remember to affix the R.A. number to the outside of the carton. Any packages received without such R.A. number will be refused. Note: freight collect shipments will also be refused. When the unit has been received, inspected and tested, the customer will receive a report of the findings along with a quotation for recommended repairs, which are found falling outside of the standard warranty. Units returned for in-warranty repairs, which are found not to be defective will be subject to an evaluation and handling charge. In-warranty units will be repaired at no charge and returned via prepaid freight.

Out-of-warranty units needing repair require a purchase order and will be invoiced for parts, labor, and shipping charges.

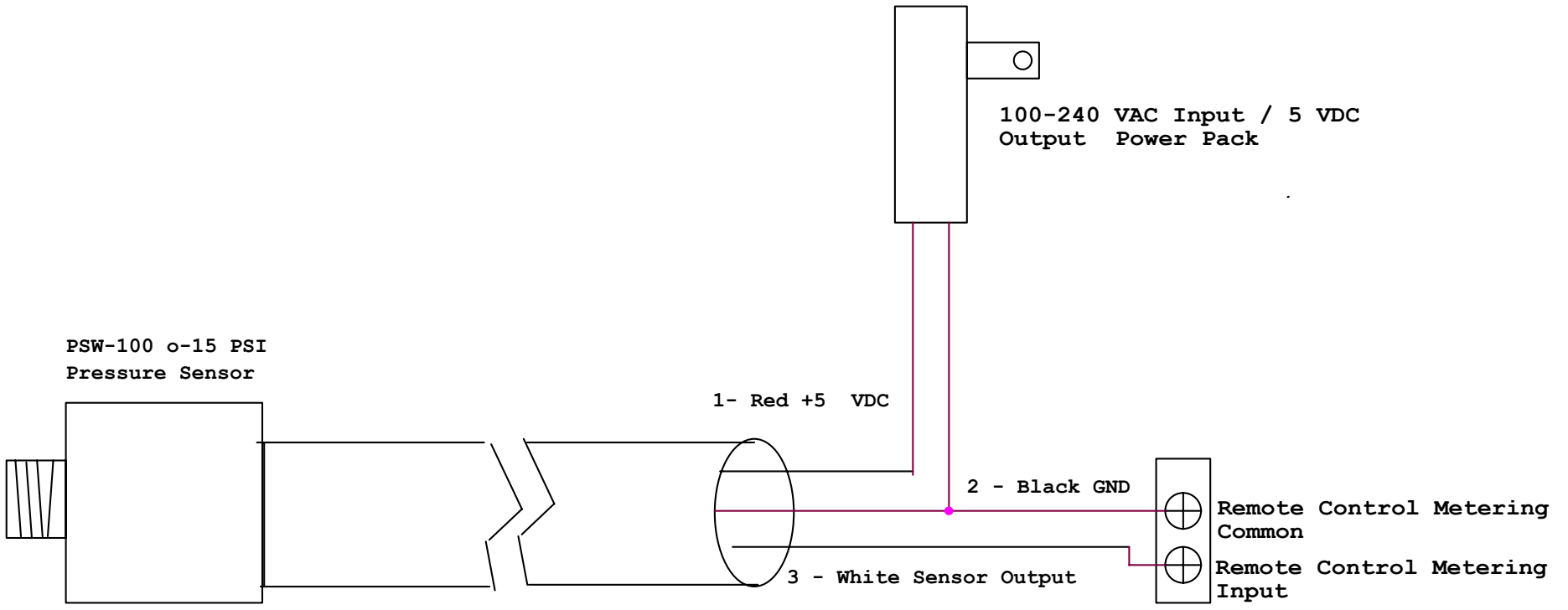
When ordering replacement part, always specify A) Part Description, and Quantity; B) Date of Purchase, Where Purchased; C) Any Special Shipping Instructions. Always specify a street address, as shipping companies cannot deliver to a postal box.

Broadcast Devices, Inc. is not responsible for any other manufacturer's warranty on original equipment. Nor are we responsible for any failure, damage, or loss of property that may occur due to the installation or operation of our equipment outside of recommended specifications.

Broadcast Devices, Inc. reserves the right to change materials, specifications, and features from time to time. [www.broadcast-devices.com](http://www.broadcast-devices.com)

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Wiring Detail of PSW-100 Pressure Sensor

<b>BROADCAST DEVICES, INC.</b>		
Title		
PSW-100 0-15 PSI Pressure Sensor		
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A	{Doc}	B
Date:	Wednesday, April 24, 2002	Sheet 1 of 1
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