



**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 (provided by the DPS-100D connection) 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 plug the PSW-100-5 to the External Pressure Sensor connector ("PRES") on the DPS-100D Chassis Top Connector (see the DPS-100D Technical Manual).

If the PSW-100-5 is used without the DPS-100D refer to the wiring as shown in the accompanying diagram in the manual. 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 a user supplied 5 VDC power source 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. Limited Product Warranty

Broadcast Devices, Inc. ("BDI") products are warranted against failure due to faulty materials or workmanship for a period of one (1) year from the date of shipment to the ultimate user. 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 a Returned Material Authorization (RMA) number affixed to the outside of the container, obtained from the factory. The above warranty is void if the unit has been modified by the user outside any factory recommendations or if the unit has been abused or operated outside its electrical or environmental specifications. If customer conducted field tests suggest that the unit may be faulty, whether the unit is in warranty, a full report of the difficulty should be sent to the Broadcast Devices, Inc. factory. The factory may suggest further tests or authorize a return for factory evaluation.

Units sent to the factory should be well-packed and shipped to Broadcast Devices, Inc. The current shipping address can be found by visiting our main web page: [www.broadcast-devices.com](http://www.broadcast-devices.com). Remember to affix the RMA number to the outside of the carton. Any packages received without such an RMA 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 that fall outside the standard warranty. Units returned for in-warranty repairs that 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 a replacement part, contact any authorized reseller of Broadcast Devices, Inc. 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.

BDI. is not responsible for any other manufacturer's warranty on original equipment. Nor are we responsible for any failure, damage, or loss of property resulting from the installation or operation of our equipment outside the recommended specifications.

Broadcast Devices, Inc. reserves the right to change materials, specifications, and features at any time.

**BROADCAST DEVICES, INC. MAKES NO WARRANTY, EXPRESS OR IMPLIED, OTHER THAN AS SPECIFICALLY STATED ABOVE. EXPRESSLY EXCLUDED IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PURPOSE. THE FOREGOING SHALL CONSTITUTE ALL OF BDI'S LIABILITY (EXCEPT AS TO PATENT INFRINGEMENT) WITH RESPECT TO THE BDI PRODUCTS. IN NO EVENT SHALL SELLER BE LIABLE FOR SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES, INSTALLATION COSTS, LOST REVENUE OR PROFITS, OR ANY OTHER COSTS OF ANY NATURE AS A RESULT OF THE USE OF BDI PRODUCTS MANUFACTURED BY BDI, WHETHER USED IN ACCORDANCE WITH INSTRUCTIONS OR NOT. UNDER NO CIRCUMSTANCES SHALL BDI'S LIABILITY TO BUYER EXCEED THE ACTUAL SALES PRICE OF THE PRODUCTS PROVIDED HEREUNDER. NO REPRESENTATIVE IS AUTHORIZED TO ASSUME FOR BDI ANY OTHER LIABILITY IN CONNECTION WITH RF PRODUCTS.**



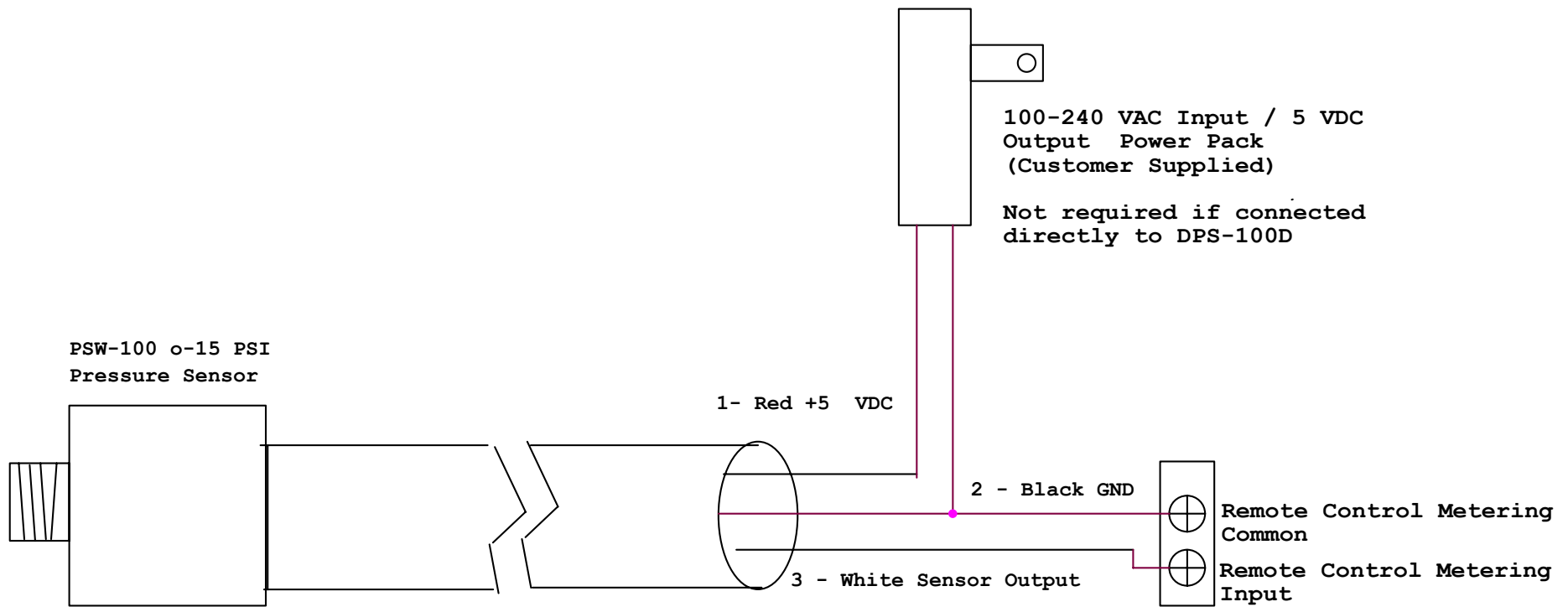
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Wiring Detail of PSW-100 Pressure Sensor

<b>BROADCAST DEVICES, INC.</b>		
Title		
PSW-100 0-15 PSI Pressure Sensor		
Size	Document Number	Rev
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Date:	Wednesday, April 24, 2002	Sheet 1 of 1