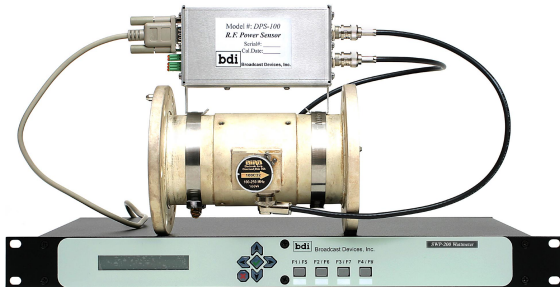
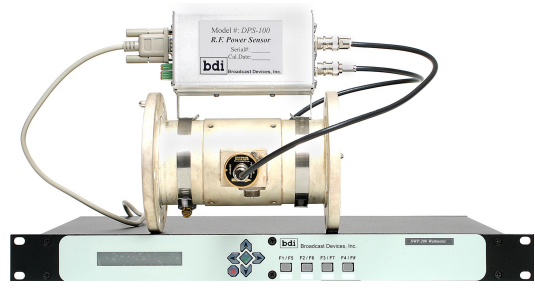


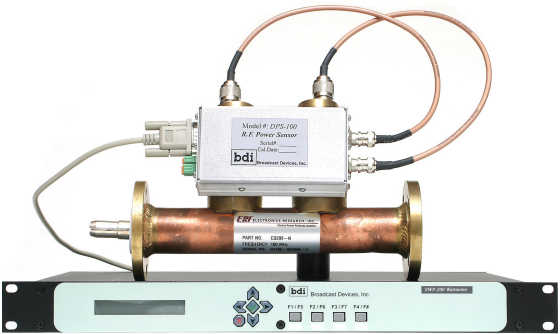
## A Power Measurement System for All Situations! Introducing the SWP-200 Series



**SWP-200D Series** provides direct interface to D.C. elemental type line section. Recommended for analog only power measurement. Allows modern upgrade to an existing system.



**SWP-200R Series** provides direct interface to D.C. elemental line sections refitted with R.F. Sample Elements. Recommended for analog and/or digital power measurement.



**SWP-200R Series** provides direct interface to R.F. directional coupler line sections. For analog or digital power measurement.



**SWP-200T Series** provides direct interface to modern transmitters directly with proportional D.C. samples available for forward and reflected power..

- \* **Complete Integration of Power Measurement - Forward/Reflected - Analog or Digital**
- \* **Reflected Power Alarm and Three Strike Control**
- \* **Management of Multi Four Port Switch Control and Interlocks**
- \* **Automatic Transmitter Changeover Sensing Loss of RF Power**

*The modern approach to power measurement is the SWP-200 series of power meters from BDI. Measurement of power from internal transmitter D.C. samples, external R.F. directional couplers, D.C. elemental type line sections and line sections fitted with R.F. sample elements can all be accommodated with this versatile product. With the added four port switch control feature you have a complete transmitter controller/monitor with automatic changeover upon loss of R.F. signal. A proprietary three strike reflected power protection system is included to interrupt interlocks upon high reflected power. Transient events such as lightning are ignored thus there is less lost air time. Simple front panel menus guide the user for setup and programmed operation. Unlike diode detection power measurement methods the DPS-100 sensor supplied with the SWP-200 Series is not sensitive to modulation and crest factor of the measured wave making it an excellent choice for **digital power measurement** for both radio and TV applications.*

*The SWP-200 Power Monitor System is the only solution that combines power measurement and four port switch control in one convenient package. It is also the only system that allows the user to interface existing D.C. type line sections for the most cost effective solution to power measurement and transmitter control on the market today. Contact your local broadcast distributor today for pricing and availability of this versatile solution from BDI.*



**Broadcast Devices, Inc.**

Tel. (914) 737-5032 Fax.. (914) 736-6916

Visit us on the web at: [www.Broadcast-Devices.com](http://www.Broadcast-Devices.com)

## SWP-200 Series Technical Specifications

### Power Measurement:

Power Measurement:	RF Sensor, D.C. sample from transmitter or line section element - Measures FWD/REF power of two line sections simultaneously - Uses BDI DCA-100 D.C. Line Interface or DPS-100 RF Line Interface - Model Specific
Power Measurement Accuracy:	0.5 dB over 50 dB dynamic range with use of RF directional coupler and BDI DPS-100
VSWR Protection:	User Adjustable for reflected power level
VSWR Protection Response Time:	1 sec./ event - Interlocks locked out upon third event

### Four Port Switch Control:

Number of Switches Controlled:	1 to 4 - Model Specific. For larger systems contact the factory
Interlock:	External Interlock String Inputs and Relays A/B Paths For Active Load and Dummy Load
Switch Control Voltage:	+12 VDC Standard - External Interface Available for Other Switch Voltages

### Other General Specifications:

Remote Control:	Internal 5 VDC Pullup - Ground Active or Serial*
Status	Open Collector Pull to Ground Parallel or Serial*
Display:	Alphanumeric display of forward/reflected power, alarm status, four port switch position
Connector Types:	DB-15 for Switch Interface, DB-25 for R/C, Status and Interlock. DB-9 for serial interface
Power Requirements:	100 - 240 VAC 50-60 Hertz EIC Power Entry
Physical Dimensions:	19" W X 1.75" H X 10" D - One EIA R.U.
Environmental:	0-60 Degrees C. Non Condensing Atmosphere

\*Standards are under development to work with most manufacturers transmitter products

***www.broadcast-devices.com Tel. (914) 737-5032***

## ***How to order:***

### ***For new transmitter installations where D.C. RF samples are available from the transmitter order:***

**SWP-200-1T** - power meter and single switch controller for two transmitters- Package consists of SWP-200 chassis and associated switch cabling - customer specified 4 port switch type/manufacturer

### ***For applications where a D.C. elemental line section is available providing forward and reflected power D.C. samples order:***

**SWP-200-1D1** power meter and single switch controller supplied with DC Elemental Line Section Interfaces  
Package consists of 1- SWP-200 chassis, 1- DCA-100 Line Section Interfaces and all associated cabling

**SWP-200-1D2** power meter and single switch controller supplied with DC Elemental Line Section Interfaces - Package consists of 1-SWP-200 chassis and 2- DCA-100 DC Elemental Line Section Interfaces

**SWP-200-2D2** power meter and dual switch controller supplied with DC Elemental Line Section Interfaces - Package consists of 1-SWP-200 chassis and 2-DCA-100 DC Elemental Line Section Interfaces.

### ***For applications where an RF directional coupler is used order:***

**SWP-200-1R1-1-5/8** power meter and single switch controller with RF directional coupler line section interfaces - Package consists of 1-SWP-200 chassis, 1-DPS-100 RF line section Interface and 1-ERI 1-5/8 single port flanged rirectional coupler.

**SWP-200-1R1-3-1/8** power meter and single switch controller with R.F. directional coupler line section interface - Package consists of 1-SWP-200 chassis, 1-DPS-100 RF directional coupler interface and 1- ERI 3-1/8 single port flanged directional coupler

**SWP-200-1R1-4-1/16** power meter and single switch controller with R.F. directional coupler line section interface. - Package consists of 1-SWP-200 chassis, 1-DPS-100 RF directional coupler interface and 1- ERI 4-1/16 single port flanged directional coupler.

**SWP-200-1R1-6-1/8** power meter and single switch controller with R.F. directional coupler line section interface - Package consists of 1- SWP-200 chassis, 1- DPS-100 RF directional coupler interface and 1 - ERI 6-1/8 single port flanged directional coupler

**SWP-200-1R1-0** power meter and single switch controller for use with D.C. elemental line section refitted with RF Sample elements. Package consists of 1 - SWP-200 chassis and 1 - DPS-100 RF directional coupler interface.

**SWP-200-1R2-0** power meter with dual switch controller for use with D.C. elemental line sections refitted with RF Sample elements. Package consists of 1 - SWP-200 chassis and 2 - DPS-100 RF directional coupler interfaces.

***If unflanged couplers are required, add “U” suffix to above SWP-200-1R1 model numbers***

### ***For N+ Systems Order:***

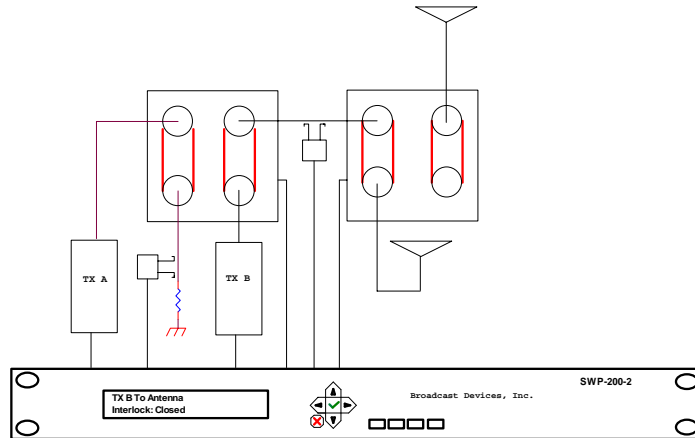
**SWP-200-X N** - X - 3 or 4 number of switches to control. For more than 4 contact the factory for a custom configuration. Package consists of SWP-200 chassis. This configuration is intended for new N+ installations where D.C. power samples are available from the transmitters to be controlled.

All SWP-200 systems support the use of the optional TMP-100 temperature sensor and PSW-100 pressure sensor available from BDI.



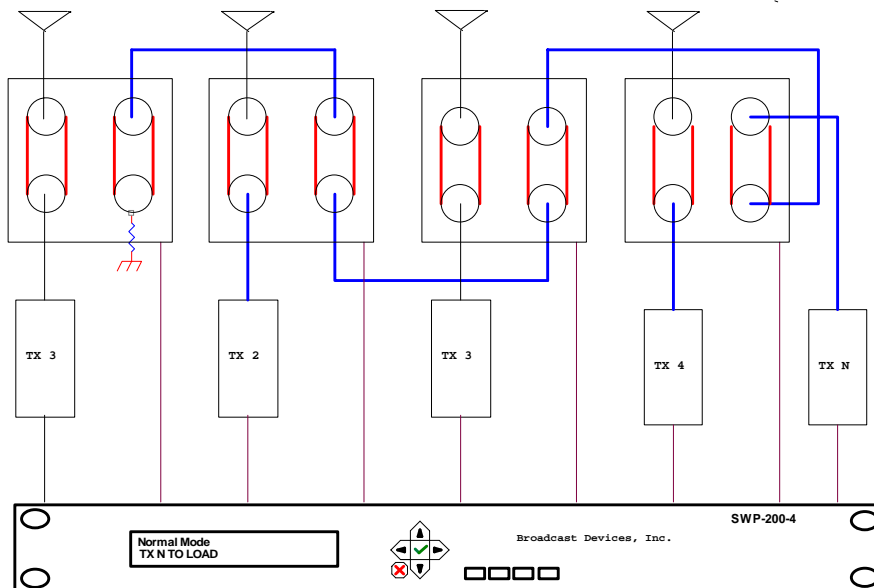
## SWP-200: Single or Dual switch control of transmitter and antenna selection

Controls one or two four port switches - Main/Aux. transmitter, main/Aux. antenna switching  
 Manages transmitter control and interlocks  
 Senses loss of carrier at predefined level for automatic switching  
 Exclusive "Safe Switch" feature prevents switch damage by preventing switch operations with RF Present  
 Integrated Forward and Reflected Power meter  
 Proprietary "Three Strike" counter for maximum transmitter protection and minimum off air time  
 Senses High VSWR and can automatically switch to auxiliary antenna



## SWP-200-XN Four switch control of transmitter N+ system

Controls four - four port switches for N+ Systems  
 Manages transmitter control and interlocks  
 Senses loss of carrier at predefined level for automatic switching  
 Exclusive "Safe Switch" feature prevents switch damage by preventing switch operations with RF Present  
 Optional Integrated forward and reflected power meter  
 Proprietary "Three Strike" counter for maximum transmitter protection and minimum off air time



Examples of possible switch control systems using the SWP-200 Series

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