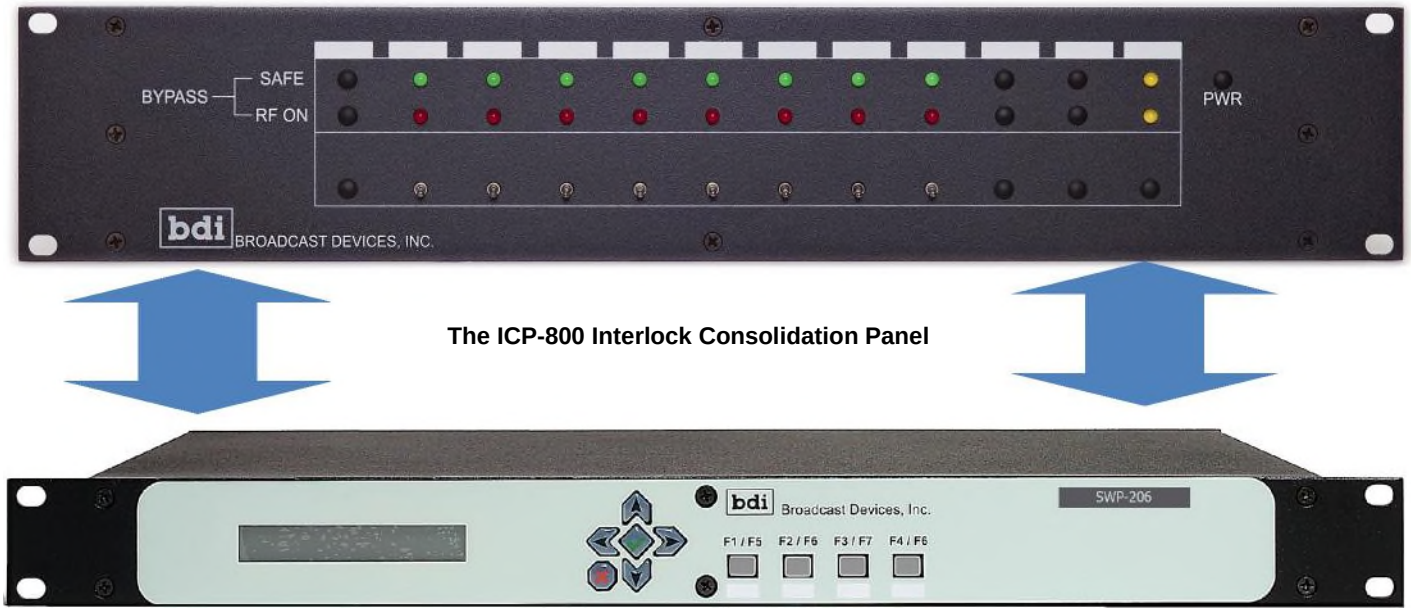
ICP-800 Interlock Consolidation Panel

Consolidates Combiner System Interlocks and Provides RF Safety Indications



The ICP-800 Interlock Consolidation Panel

SWP-206 Digi-Monitor Antenna Monitor/Protection System from BDI

Product Description

The BDI DPS-100D Series RF Power meter for use with all ICP-800 and SWP-206 products. Together, these three products provide an integrated system for monitoring and protecting antenna and combiner systems, offering a modular, plug-together approach to site monitoring. This approach means installations are fast and uncomplicated and provide easy maintenance if it ever becomes necessary.

The ICP-800 Interlock Consolidation panel, DPS-100D Series RF Power meter, and SWP-206 Digi Monitor were developed by BDI to display multiple DPS-100D True-RMS Digital Power Sensors in a single 2RU rack-mounted chassis. Now add the ICP-800 Interlock consolidation/RF safety panel to consolidate all interlock “event” connections into one closure per station, connected to a combiner system. The system provides the status of RF presence on a transmission line. Used in conjunction with BDI’s popular DPS-100D series RF power meters, the ICP-800 can be used with the SWP-206 Digi-Monitor Antenna Monitor System for complete interlock control and RF Safety status.

If you need more than 8 channels of capacity on the ICP-800, additional SWP-206 and ICP-800 units can be added for larger systems. It is recommended that an SWP-206 system be used for all broadband monitoring of a typical combined broadcast system, and that additional SWP-206 and ICP-800 units be used for narrowband channels as required by the application.

No other RF monitor/protection system offers more flexibility than BDI’s comprehensive RF site products, which also include temperature and transmission line pressure monitoring, as well as other site-related GPIO closures that can be monitored for display. Call us today to find out why BDI has become one of the most trusted names in the industry.

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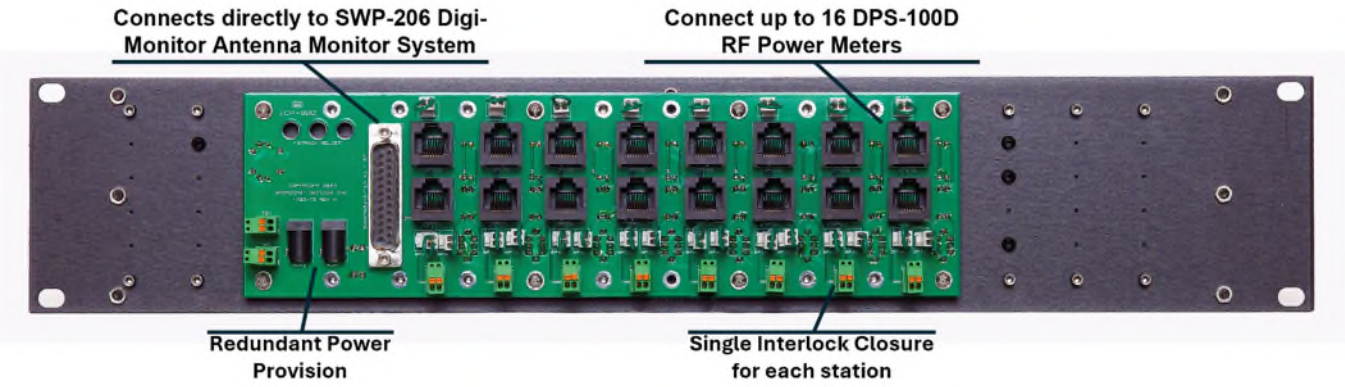
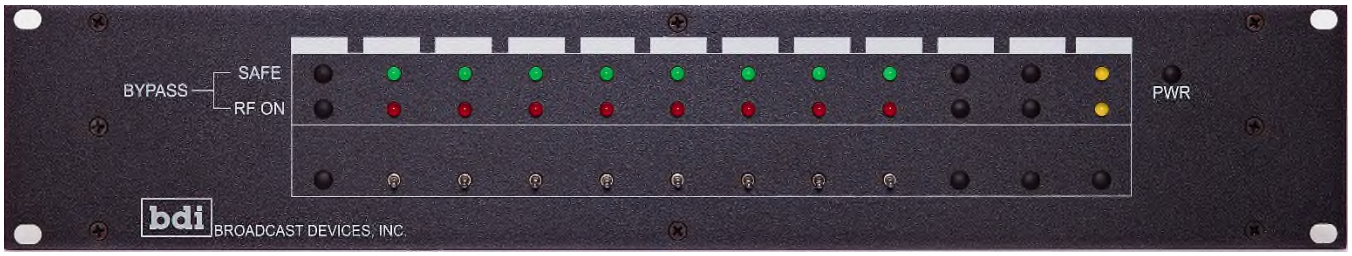


ICP-800 Rear Panel View

A Single Interlock Closure for each station is connected to the ICP-800, which incorporates all interlock open events, including high VSWR, RF switch movement, lockout/tagout, switch operation, and overheat of reject and dummy loads. Also included are bypass jumpers for each RF power meter, in case one meter needs to be removed for service, such as periodic calibration.



ICP-800 RF Consolidation Panel: Easy to read onsite front panel view

The ICP-80 Front Panel Indicators provide a simple RF “Safe” - RF off condition or RF “ON for when RF is applied to any DPS-100D series power meter connected. RF On threshold is user-defined at the connected DPS-100D series power meter. This provides site managers or tower crews with an easy to read display for RF safety programs. When the red light is out and the green is illuminated, it’s safe to climb. Because RF Safety is serious business and requires the BDI ICP-800 panel, it can be part of an RF Safety plan for most any site with a combined system or to monitor multiple transmission lines. Even if interlock closures are not a factor you can connect up to 8 DPS-100D series power meters to each panel for positive indication of all transmission lines on a given tower.

Panel Viewer Software

Need more details about RF operation? Add the BDI Panel Viewer software package to multiple BDI DPS-100D series RF power meters for inspection of forward and reflected power, internal and optional external temperature sensors for each meter, transmission line pressure and the condition of six (6) general purpose input/output closures. Viewable Internet connection by multiple users simultaneously if desired anywhere in the world. Use multiple tabs to organize viewing of the broadband and narrowband sections of a combiner, or to monitor multiple powers across different transmission lines.

Panel Viewer for multiple DPS-100D Power Meters

Panel Viewer set up with multiple tabs

ICP-800 Interlock Consolidation Panel

Technical Specifications	ICP-800
Number of Channels:	16 DPS-100D series power meters can be connected to LEDs provided for 8 meters. The other eight (8) meters are for connection to an interlock loop, such as a combiner or system reject loads, lockout/tagout switches, patch panels, or RF switches for each channel, to test indicator lights for proper operation. Two (2) power indicators
Number of interlock closures:	Eight (8) consolidated interlock closures, Form C 30 VDC @ One Ampere Contact Rating - Up to 24 with optional additional relay panels
Indicators:	Eight (8) RF ON and Eight (8) SAFE (RF OFF) test switches provided
Other connections:	DSUB connector provided for interface to SWP-206 interlock relay outputs, Jumpers for bypass of a DPS-100D power meter for maintenance/ troubleshooting
Controls:	Eight (8) toggle switches for test of indicators. When turned on both indicator lights illuminate for testing
GPIO Connections:	Ground Start/TTL compatible Status
Communications:	Parallel R/C, TCP/IP – SNMP v2
Power Requirements:	12 VDC @ 2A redundant power inputs-12 VDC power supplies are supplied with each system. Provision to connect to Two (2) external 12 VDC power supplies
Operating Ambient Temperature:	32 to 122 degrees, F (0 to 50 degrees, C)
Humidity:	95%, Non-condensing
Mechanical Dimensions:	19 in W x 2 in D x 3.5 in H (483 mm W x 51 mm D x 89 mm H) Standard Two (2) EIA Rack Unit Enclosure with Four (4) Mounting Holes
Shipping Dimensions:	25 in W x 4 in D x 4 in H (635 mm W x 102 mm D x 102 mm H)
Shipping Weight:	4 lbs (2 kg)

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