



Sensors

TASC Bi-directional Power Sensor – BPS2 Series (VHF/UHF)

TASC's RF Bi-directional sensors provide a linear (in dB) DC voltage output corresponding to an input RF signal. Provides precise forward and reflected power measurements. The low profile flanged enclosure makes it easy to mount or be integrated into TASC's 19" rack assembly.



General

Isolation:	> 25 dB
Frequency Range:	136-174 MHz, 400-512 MHz
Measurement Range:	400 mW - 100W average power
Insertion Loss:	0.1 dB @ 136-174 MHz 0.2 dB @ 400-512 MHz
Input VSWR:	1.06:1 Maximum
Power Handling:	100 watts average power
Power Requirements	5.5 – 26 VDC @ 39 mA

Measurement

Power Accuracy:	±0.5 dB
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User Interface

Hardware:	Linear analog output (0 – 3.6 VDC)
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Mechanical

RF Connectors:	N type F-F
Power/Output Connector:	4 pin press lock. VDC In, GND, analog output
Operating Temperature:	-40 to +65°C
Dimensions:	70mm x 56mm x 70mm (L x W x H)
Weight:	275g
Housing Material:	Aluminum, black powder coat



Sensors continued



Temperature Sensor

The TASC Temperature Sensor is designed to monitor ambient temperature in an enclosed environment. Sensor comes with a 10 ft shielded cable. RJ45 connection provides simple plug-in connection to the site monitoring device. (Custom lengths available)

Span:	-55 to +125°C
Accuracy:	-25 to +100°C ± 1.5 °C (nominal) -55 to +125°C ± 2 °C (nominal)
Connectivity:	RJ45
Bus Derived Power:	2 mA per sensor
Coating:	Conformal



Differential Sensor and Current Shunt

The sensor/shunt combination is designed to measure DC current. Connectivity is achieved by placing in-line after the power supply and connecting to the analog inputs of the TASC site monitoring device. A user manual is included, providing the information needed to connect and setup the sensor.

VDC In:	7 to 20 VDC
Current:	2 mA Max.
Operating Temp:	-40 to +65°C
+IN/-IN:	Differential Input Voltage = ± 0 – 125 mV Common Mode Voltage (CMV) = 0 – 65 VDC
AOUT:	0 – 5 VDC
Module Size:	52mm x 36mm x 28mm (L x W x H)
Weight:	15g

100mV DC Ammeter Shunt: 5, 20, 30 or 50 AMP



AC Voltage Sensor

The AC Voltage Sensor will measure AC voltage in a single phase system. A user manual is included, providing the information needed to connect and setup the sensor.

Environmental:	Functional temperature -25 to +70°C Storage temperature -55 to +85°C
Input:	0 – 150 VAC, 0 – 300 VAC
Output:	0 – 5 VDC >1 Kohms
Enclosure:	Snap on to DIN rail 35 x 7.5mm
Approval:	cU.L. US File No. E157034

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