



## 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. 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

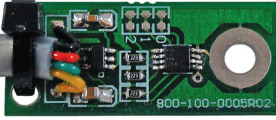
Hardware:	Linear analog output (0 – 3.6 VDC)
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#### Mechanical

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 7 ft shielded cable attached. RJ45 termination provides simple plug-in connection to the site monitoring device. (Custom lengths available)

Span:	-55 to +125°C
Accuracy:	-25 to +100°C ± 2 C° -55 to +125°C ± 3 C°
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:	c.U.L. US File No. E157034

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