TASC SYSTEMS INC.

Sensors

TASC Bi-directional Power Sensor – BPS 2 series

TASC's RF Bi-directional sensors provide a linear (in dB) DC voltage output corresponding to an input RF signal (40 – 2000 MHz). The sensor also provides an option to set power thresholds to trigger open drain outputs for both the forward and reflected signals. The low profile flanged enclosure makes it easy to mount or be integrated into TASC's 19" rack assembly.

General

Directivity:	> 20 dB
Frequency Range:	40 – 2000 MHz (Model Specific)
Measurement Range:	100 uW – 130 W Average Power
Insertion Loss:	• Model: 40-500MHz 0.15 dB @ 100 MHz 0.27 dB @ 200 MHz 0.36 dB @ 300 MHz 0.42 dB @ 400 MHz 0.49 dB @ 500 MHz
Input VSWR:	1.15:1 Maximum
Power Handling:	130 watts Average Power
Power Requirements:	5.5 – 26 VDC @ 39 mA

Measurement

Power Accuracy:	+ / - 0.5 dB

User Interface

Hardware:	Linear Analog Output (0-3.6 VDC)
Option:	Settable Open Drain Output – switch up to 50 VDC @ 150 mA

Mechanical

RF Connectors:	N type F-F
Power/Output Connector:	4 pin press lock. VDC In, GND, Analog Output, Open Drain Output
Operating Temperature:	-40 to +65°C
Dimensions:	70mm x 56mm x 70mm (LxWxH)
Weight:	275 g
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 cable attached. RJ45 termination provides simple plug-in connection to the site monitoring device.

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 with the circuit and attaching 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 (LxWxH)
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 +85C
Input:	0-150 VAC
Output:	0-5 VDC >1 Kohms
Enclosure:	Snap on to DIN rail 35 x 7.5 mm
Approval:	cU.L. US File No. E157034

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