

CARRIER MONITORING SYSTEM VC1800



FEATURES:

- REMOTELY MONITOR THE HEALTH OF SATELLITE CARRIERS
- QUICKLY DETERMINE THE SYMPTOMS OF A LINK FAILURE
- ABILITY TO RECEIVE AUDIBLE ALARM/SNMP ALERT WHEN CARRIER PARAMETERS GO OUT OF SPEC
- DETERMINE SYMPTOMS OF INTERMITTENT PROBLEMS WITH LOGGED SIGNAL PARAMETER DATA
- COMPACT 1RU FORM FACTOR
- FAST SWEEP SPEED

YOU HAVE A JOB TO DO. Your responsibility is to ensure the health and performance of your satellite carriers. When a problem develops, you need to know it immediately, diagnose it quickly, and get your link up again PDQ. And, like the carpenter who would never go to a jobsite without his nail gun, you need the right tool to do your job.

YOU NEED THE TAMPA MICROWAVE'S VC1800.

The VC1800 Remote Satcom Carrier Monitoring System shows you when parameters such as signal power, bandwidth and C/No are outside acceptable limits, so you can quickly make necessary adjustments. The system also shows you when an interfering signal is present. And because you need to know instantly when things go wrong, the VC1800 can automatically watch the carriers and generate an audible alarm or SNMP alert when there's a problem.

What about intermittent signal problems? The VC1800 offers a data logging option, so you can view a log signal parameters and spectrum sweeps over time. This has been proven to be an invaluable tool for determining the symptoms of an intermittent problem.

Chances are, you are monitoring carriers at multiple remote sites, and perhaps even several signals along the receiver chain of each carrier. The VC1800 enables real-time remote monitoring of multiple sites and multiple signals, from virtually anywhere in the world. Simultaneous remote access means you can collaborate with a distant colleague for assistance with a problem.

The VC1800 provides a frequency range from 100 kHz to 1.8 GHz – covering the L-Band output of block down converters, as well as IF signals. Connectivity is extremely flexible, with Ethernet, RS232 serial, and USB only a few of the interface possibilities. And with the space always at a premium, all this power comes in a compact, 1RU chassis.

The VC1800 is a ready-to-run, fully integrated spectrum monitoring solution that instantly tells you when a carrier problem occurs – then gives you powerful tools to get your link up again as quickly as possible.

Carrier Monitor

Transponder Configuration

Name	Input	Start Frequency	Stop Frequency	Measurements	
Transponder 1	1	85000000	175000000	0	Update Cancel

Add New Transponder

Selected Transponder Thresholds

Type	Enable Minimum Value Alarm	Minimum Value	Enable Low Value Alarm	Low Value	Enable High Value Alarm	High Value	Enable Maximum Value Alarm	Maximum Value
Power	0	0	0	0	0	0	0	0

Carrier Configuration

Name	Transponder	Modulation	Center Frequency	Bandwidth	Data Rate	Measurements	
Carrier	Transponder 1	QPSK	70000000	10000000	1000000	0	Edit Delete Select

Add New Carrier

Selected Carrier Thresholds

Type	Enable Minimum Value Alarm	Minimum Value	Enable Low Value Alarm	Low Value	Enable High Value Alarm	High Value	Enable Max Value Alarm	Max Value
Power	0	0	0	0	0	0	0	0
Bandwidth	0	0	0	0	0	0	0	0
Center Frequency	0	0	0	0	0	0	0	0

Real-time monitoring lets you instantly see when you have a problem so you can quickly make necessary adjustments.

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OPTIONS

VC-CS4:

4 INPUT COAXIAL SWITCH.

VC-CS8:

8 INPUT COAXIAL SWITCH.

VC-OCXO:

OVEN-CONTROLLED REFERENCE OSCILLATOR PROVIDES +/- 0.0015 PPM FREQUENCY REFERENCE TEMPERATURE STABILITY.

VC-WEB:

ENABLES WEB ACCESS AND CONTROL

VC-LOG:

SPECTRUM LOGGING WITH AUTOMATIC PERIODIC SPECTRUM CAPTURE WITH 3D SPECTRUM VS. TIME DISPLAY

VC-SNMP:

ALLOWS ANALYZERS TO GENERATE SNMP ALERTS TO A NETWORK MONITORING SYSTEM

VC-FWO:

IEEE-1394 (FIREWIRE) COMMUNICATION PORT

SPECIFICATIONS

FREQUENCY:

INPUT FREQUENCY RANGE: 100 kHz TO 1.8 GHz

FREQUENCY REFERENCE:

THERMAL STABILITY: $\pm 1.5 \times 10^{-7}$ @ 20° TO 30° C (VC-OCXO OPTION: $\pm 1.4 \times 10^{-9}$)
 $\pm 7.4 \times 10^{-7}$ @ 0° TO 50° C (VC-OCXO OPTION: $\pm 7.2 \times 10^{-9}$)

AGING: $\pm 1 \times 10^{-6}$ /YEAR (VC-OCXO OPTION: $\pm 1 \times 10^{-7}$ /YEAR)

PHASE NOISE: -84 dBc/Hz (TYPICAL: -90 dBc/Hz) @ 10 kHz OFFSET

RBW: 3 Hz TO 1 MHz, CONTINUOUSLY VARIABLE

AMPLITUDE:

MEASUREMENT RANGE: DANL TO MAXIMUM SAFE INPUT LEVEL

MAXIMUM SAFE INPUT LEVEL: +20 dBm (INPUT ATTENUATOR: 0dB)

DANL (DISPLAYED AVERAGE NOISE LEVEL):

-130 dBm (RBW: 100 Hz; INPUT FREQUENCY: > 1GHz)

NOISE FIGURE: 24 dB TYPICAL (INPUT FREQUENCY: > 1GHz)

THIRD ORDER INTERCEPT: +12 dBm TYPICAL (INPUT FREQUENCY: > 1GHz) (TWO -50 dBm SIGNALS AT MIXER INPUT W/ >150 kHz SEPARATION)

PHYSICAL AND ENVIRONMENTAL:

DIMENSIONS: 19" RACK MOUNTABLE; 1RU, DEPTH: 20"

WEIGHT: 14 LBS.

OPERATING TEMPERATURE: 0° TO 50° C

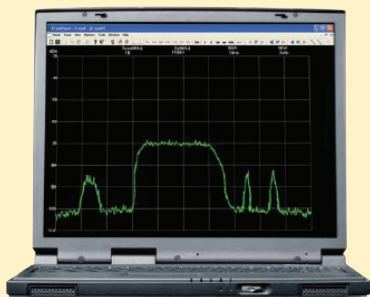
OPERATING HUMIDITY: 8% TO 90% NON-CONDENSING

ADDITIONAL SPECIFICATIONS:

COMMUNICATIONS INTERFACE OPTIONS: ETHERNET, RS232 SERIAL, USB, (FIREWIRE OPTIONAL)

PROTOCOL: TCP/IP (SNMP ALSO AVAILABLE)

POWER REQUIREMENTS: 100-240 VAC, 50-60 Hz, 2.0 AMPS
 +24VDC @ 3.5 AMPS MAX



The built in Digital Spectrum Analyzer allows you to diagnose any problem quickly and make necessary adjustments.

