RF Monitoring Products

CATS 78000 / 79000 SERIES

VSWR / POWER MONITOR FOR MULTIPLE Tx AND Rx ANTENNAS

- **Ready for Use on Ericsson 884 BTS Systems**
- **Optional 19" or 32" Rack-Mount for Other BTSs**
- **Cellular and PCS Models**
- **Monitors Up to 6 Tx and 6 Rx Antennas**
- **Alarm LED and Form-C Relay for Each Antenna**

DESCRIPTION

The CATS Series 78000 operates at cellular frequencies and provides the same complete cell site antenna monitoring and transmit power measurement capabilities as the CATS 72000 Series (page 115). The CATS 79000 Series provides the same functions at PCS frequencies. Both units are designed specifically for use with the Ericsson 884 BTS and are offered with mounting kits for other BTS systems. Each CATS 78000 or 79000 Series can be configured to provide monitoring for up to six Tx and six Rx antennas. The Tx monitoring is realized with externally- mounted CATS 8455/8475 Series Tx Power/VSWR Monitors.

Narda CELLPRO Plus software for Windows is provided with the 78000 and 79000 Series products to facilitate setup and monitoring with all the capabilities described for the 72000 series (see pages 115-119).

CATS 78000 Series

The Narda CATS 78000 Series is specifically designed for direct installation on Ericsson 884 BTSs. This unit contains the receive antenna sensors, computer interface, and alarms for both the transmit and receive antennas. The transmit monitor is optional. If required, a CellGuard Series Model 8455 is utilized. Up to six Series 8455 transmit monitors can be mounted at any convenient location in the transmit chain after the combiner network. Each

Series 8455 transmit monitor is connected to the Series 78000 through a cable provided with the unit.

An RS232 interface is provided for either direct connection to a local computer or to a modem for remote communications. All communication to the receive monitors and optional transmit monitors are accomplished through the single RS232 interface.

Alarms are provided for each transmit and receive antenna utilizing Form-C Relays and LEDs. Alarm outputs are provided through a specified interface on the Series 78000. An LED is also provided to indicate *Power On*.

AUTONOMOUS OPERATION

As described in the Series 72000 section of this catalog, the Series 78000 is offered with autonomous operation. This option includes an onboard computer in the 78000 assembly which allows for the programming of measurements at specific times, automatic testing of potential alarm conditions, and the storage of data for future use.

CATS 79000 Series

The CATS 79000 is identical to the CATS 78000 and performs all the same functions except it works at PCS frequencies. It uses CATS 8475 Power/VSWR Monitor modules.

USA TEL: (1) 631 231-1700 • INT'L TEL: (1) 631 231-1390 • FAX (1) 631 231-1711
E-MAIL: nardaeast@L-3COM.com • www.nardamicrowave.com

narda
an (L3) communications company

125

RF Monitoring Products

SPECIFICATIONS

MODEL	CATS 78100-01	CATS 79100-01
FREQUENCY RANGE (Rx SWEEP)	824 TO 915 MHz	1850 TO 1910 MHz
INSERTION LOSS	.2 dB MAX, .15 dB TYPICAL	
MAIN LINE VSWR	1.10:1 MAX	
TEST SIGNAL POWER LEVEL	-15 dBm TYPICAL	
Rx VSWR MEASUREMENT RANGE	1.07:1 TO 10:1	
Rx VSWR ACCURACY	ACTUAL VSWR UNCERTAINTY 1:2 TO 1 +.15 - .15 1.5 TO 1 +.15 - .10 2.0 TO 1 +.30 - .20 2.5 TO 1 +.40 - .50 3.0 TO 1 +1.0 - .50	
COMPATIBLE Tx POWER / VSWR MONITOR	CATS 8455 SERIES	CATS 8475 SERIES
COMPUTER INTERFACE	RS 232	
DATA RATE	9600 BAUD	
ALARMS	Tx AND Rx LED AND FORM-C RELAY FOR EACH ANTENNA	
INPUT POWER	+20 TO +28 VDC, 1 AMP MAX.	
OPERATING TEMPERATURE	0 TO 50°C	
HUMIDITY	0 TO 95% RH, NON-CONDENSING	

narda
an [L3] communications company

RF Monitoring Products

OUTLINE DRAWING

Typical 78000 / 79000 Series

USA TEL: (1) 631 231-1700 • INT'L TEL: (1) 631 231-1390 • FAX (1) 631 231-1711
E-MAIL: nardaeast@L-3COM.com • www.nardamicrowave.com

narda
an L3 communications company

127