

**“ADVANCED WATTCHMAN®” MONITOR/ALARM**  
**For Analog and Digital Broadcasting**

**MODEL 81094**

The Model 81094 is the first in a series of Internet/Intranet accessible Advanced Wattchman® Wattmeter/Alarm systems that will monitor both forward and reflected power in two transmission lines with only one controller. Unlike previously available systems that needed one controller for each transmission line, the Advanced Wattchman® will monitor two lines (4 ports). The front panel display shows power on both systems simultaneously. Operating conditions may also be displayed on a PC from any location on the Internet/Intranet.

The Model 81094 is designed to work with a series of specialized line sections from 7/8” to 6-1/8” and standard Coaxial Dynamics elements for either analog or digital applications. Elements are available from 1 W to 100 kW and from 2 MHz to 2.3 GHz.

A typical system normally consists of an Advanced Wattchman® controller and a dual socket line section with the appropriate elements for each transmission line to be monitored. Each line section comes with a 10-foot telecommunications style cable to interface with the 81094. No additional power supply or cabling is required at the line section other than an RF source and load.

Abnormal load conditions quickly cause an alarm and email notification. Each transmission line may have entirely different power levels and frequencies since those parameters are determined by the elements. Different alarm/shutdown requirements can be set for each transmission line.

By accessing the controller through the RJ-45 connector on the rear panel alarm levels, power ranges for the elements as well as email notification of fault conditions may be set.

Three sets of interlock terminals are available on the rear panel. One set of terminals will be activated with any fault; the other two sets are for each individual system. An audio alarm will sound for any fault conditions.



- Protects Your Transmitter System
- Bright Fluorescent Display
- Continuous Display for Two Systems
- Remote Display and Control
- Audio and Visual Display of Faults
- Two Year Limited Warranty

**Specifications**

Power Range:	1 W to 100 kW
Frequency Range:	2 MHz to 2.3 GHz
Modulation Type:	Analog Elements (FM, CW) Digital Elements (HDTV, DTV, CDMA, IBOC, etc.)
Accuracy:	+/- 5% of full scale
Alarm Sets:	Master alarm plus one alarm for each system
Terminals:	3 sets of dry contacts (Common, NO and NC)
Data Logging:	Optional
Power Requirements:	115/230 VAC, 50/60 Hz
Nominal Size:	1-3/4" H x 19" W x 7" D – 1U Rack Mount (4.4 cm x 48.3 cm x 17.8 cm)
Weight:	6 lbs (2.7 kg)
Available Line Sections:	
7/8" Dual Socket	88535D = EIA Flange; 88539D = Unflanged Flush; 88539-2D = Unflanged Recessed
1-5/8" Dual Socket	88514D = EIA Flange; 88515D = Unflanged Flush; 88515-2D = Unflanged Recessed
3-1/8" Dual Socket	88516D = EIA Flange; 88517D = Unflanged Flush; 88517-2D = Unflanged Recessed
4-1/16" Dual Socket	88518D = EIA Flange; 88519D = Unflanged Flush; 88519-2D = Unflanged Recessed
6-1/8" Dual Socket	88520D = EIA Flange; 88521D = Unflanged Flush; 88521-2D = Unflanged Recessed
Optional Cable Lengths:	88932 = 25 Foot; 88933 = 50 Foot; 88934 = 100 Foot; 88935 = 200 Foot