

Digital Watchman™ Monitor/Alarm Systems Models 91090 & 91091

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Features

- Protects Your Transmitter From High Reflected or Low Forward Conditions
- Continuous Display Of Forward and Reflected Power
- Audible and Visual Alarms
- Fast Fault Response (15ms)
- Remote Reset Provision
- 110/220 VAC Input Switch
- Amplified DC Outputs
- Two Year Limited Warranty



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Description

The Coaxial Dynamics 'Digital Watchman' Rack Mounted Station Monitor/Alarm is similar in function and appearance to our [81090](#) Series except it is designed for the accurate measurement of complex RF Waveforms such as CDMA (Code Division Multiple Access), DAB (Digital Audio Broadcast), DTV (Digital TV) and HDTV (High Definition TV), as well as CW, AM and FM.

A Digital Station Monitor/Alarm system installation consists of a Digital Watchman, a dual socket Line Section and two [Digital Plug-In Elements](#) for monitoring both forward and reflected power. The Digital Watchman is supplied with four 25-foot cable assemblies for connection to the line section and elements, and a 6 foot AC power cord. Installation requires inserting the line section and elements into the transmission line, connecting the terminals of the transmitter interlock systems to the proper terminals on the Digital Watchman and providing AC power. (*Line Sections and Digital Elements are sold separately.*)

Both models feature adjustable forward and reflected trip adjustments, a built in DC amplifier and 110/220 VAC input switch. Model 91090 has our standard 5/10/25 scales and Model 91091 has 15/30/60 scales.

Abnormal load conditions quickly cause transmitter shutdown within less than 15 milliseconds (including control relay). An audible single tone alarm will indicate system/transmitter malfunction. Relay contacts are provided for remote alarm and reset switching. Fail-Safe or Non-Fail-Safe mode is selected by a switch located on the rear of the instrument.

Your confidence in the quality and dependability of the Models 91090 and 91091 Digital

Wattachman is assured with the Coaxial Dynamics Two Year Limited Warranty.

Specifications

Power Range	100 W to 100 kW
Frequency Range	54 MHz to 806 MHz
Meter Type	4-1/2 inch mirrored scale movement
Accuracy	±5% when used with proper Coaxial Dynamics line sections and elements
Response Time	Less than 15 milliseconds (including control relay function)
Front Panel Controls	Push button reset Trip set adjustments
Rear Panel Controls	Audible alarm switch Fail-Safe mode switches 110/220 VAC input switch
Connections	Meter inputs NO/NC control connections Remote alarm connections Remote reset connections AC power receptacle Amplified DC Outputs Element Connections
Contact Ratings	5A at 110 VAC non-inductive
Power Requirements	110/220 VAC, 50/60 Hz, 10 Watts maximum
Dimensions (H x W x D)	5.25 in. (13.3 cm) x 19 in. (48.3 cm) x 8 in. (20.3 cm)
Weight	6.5 lbs. (2.95 kg)
Finish	Textured Blue Polyurethane Enamel Front Panel Alodine (Yellow Iridite) Chassis

Please note: Line Sections and Digital Elements are sold separately.

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