

PM5C1S

RF WATTMETER / ALARM PANEL

The Telewave PM5C1S is a five-channel, automatic alarm panel featuring "true VSWR" circuitry and a built-in wattmeter. The 3RU (5.25" x 19") panel mounts in any standard rack or inside most base station cabinets, and can be powered directly from 120VAC or 12VDC.

Whenever a low transmitter power condition is sensed by the PM5C1S on one of the five channels, a latched relay closure occurs for the appropriate channel and a red light turns on at the front of the panel. Normally open and normally-closed relay contacts are provided for each individual channel.

A high VSWR condition is accurately sensed at all power levels and indicated by a sixth latched relay and light. These contacts can be used to remotely activate lights, speakers, or other alarm systems. The relays and lights are reset by means of a front panel RESET button or by momentarily grounding the RESET input connection located on the rear of the unit.

The panel also operates as an inline wattmeter, measuring both forward and reverse RF power of all five channels plus the sixth "VSWR channel", with all readings displayed on a 3.5-inch meter. Up to 5 power monitors (not included) for the appropriate frequency band are required.

The wattmeter panel is not frequency dependent, and power monitors for multiple bands can be used with a single wattmeter.



The PM5C1S has 2 meter scale options: 0-250 watts, or 0-400 watts. The meter scale and frequency band must be specified with the order.

| FREQUENCY RANGE | BANDWIDTH |
|-----------------|-----------|
| 30-88 MHz | 20 MHz |
| 87.5-108 MHz | 20 MHz |
| 118-512 MHz | 50 MHz |
| 760-960 MHz | 40 MHz |

The frequency range is determined by the associated power monitors. Bandwidth is the approximate maximum range over which accurate power readings may be obtained without readjustment.

| SPECIFICATIONS | | |
|---------------------------|-----|--------------------------------------|
| Power scales | FWD | 0-250 watts or 0-400 watts |
| | REV | 0-20 watts or 0-120 watts |
| VSWR alarm range | | 2.0:1 +25% / -10% |
| Low power alarm range | | 5 watts to full scale |
| Delay timing range | | 0.1 to 1 second |
| Relay contacts, closure | | N/O or N/C |
| Relay contacts, ratings | | 3A - AC or DC |
| Temperature range | | -20°C to +60°C |
| Power requirements | | 120 VAC / 8 W or +12 VDC / 3.5 W |
| Dimensions (HWD) in. (cm) | | 5.25 x 19 x 3.25 (13.3 x 48.3 x 8.3) |
| Weight lbs (kg) | | 4 (1.8) |