

# SPECIFICATION

Complete instrument specifications can be found in the 492/492P Operator's Manual.

These specifications apply at an ambient temperature of 25°C after a 2 hour warm-up period.

## Frequency Related Specifications

Center frequency range, RF INPUT	50 kHz—21 GHz
Center frequency readout accuracy	within (5 MHz + 20% of span/div) or within (0.2% of the center frequency + 20% of the span/div), whichever is greater
Frequency drift	≤200 kHz/hour

# Amplitude Related Specifications

## Frequency response and sensitivity

Frequency Range	Frequency Response	Sensitivity 1 kHz Bandwidth
100 kHz—4.1 GHz without Option 01	within 1.5 dB	–115 dBm
100 kHz—1.8 GHz with Option 01	within 1.5 dB	–110 dBm
1.7—5.5 GHz	within 1.5 dB <sup>a</sup>	–115 dBm <sup>b</sup>
3.07—7.1 GHz	within 1.5 dB <sup>a</sup>	–115 dBm <sup>b</sup>
5.4—18.0 GHz	within 2.5 dB <sup>a</sup>	–100 dBm <sup>b</sup>
15.0—21.0 GHz	within 3.5 dB <sup>a</sup>	–95 dBm <sup>b</sup>

<sup>a</sup>derate 1 dB for Option 01.

<sup>b</sup>derate 10 dB for Option 01

Maximum input level	+30 dBm ( $\geq 20$ dB RF attenuation) +13 dBm (no RF attenuation)
Input VSWR	better than 4.5:1 with $\geq 10$ dB RF attenuation
1 dB compression point	
without Option 01	-18 dBm (no RF attenuation)
with Option 01, 50 kHz—1.7 GHz	-18 dBm (no RF attenuation)
with Option 01, 1.7—2.0 GHz	-28 dBm (no RF attenuation)
with Option 01, 1.8—18 GHz	-18 dBm (no RF attenuation)
LO emission	
without Option 01	-10 dBm (no RF attenuation)
with Option 01	-70 dBm (no RF attenuation)

### Sweep and Display Specifications

Sweep time accuracy	within 5%
Trigger sensitivity	$\geq 2.0$ division of signal for internal, and 1.0 V peak (minimum) 15 Hz—1 MHz
VERT OUTPUT Levels	0.5 V of signal/division of video above and below center screen
HORIZ OUTPUT Levels	0.5 V/div either side of center full range—-2.5 V to +2.5 V $\pm 10\%$
PEN LIFT	TTL compatible. Goes high to lift pen.

## **Input Power**

Instrument power

90—132 V ac or 180—250 V ac internally selectable  
210 W maximum (Options 01, 02, 03)

Leakage current

5 mV peak (Options 01, 02, 03)

## **Environmental and Weight**

Storage temperature

−62°C to +75°C

Operating temperature

−15°C to +55°C

Storage altitude

12,192 meters (40,000 feet) maximum

Operating altitude

4,752 meters (15,000 feet) maximum

Weight

20.0 kg (44 lb)