

Built-in Amplifier Board for OEM Sensors

The electronic board amplifies, speeds-up and noise-filters the signals of laser point's OEM sensors; it gives an analog voltage output proportional to laser power.

Matching to the correct sensor's sensitivity is house made; customers will thus receive a device well aligned to the final laser power and already optimized to have a fast response time, linearity and accuracy.

Connectivity for OEM heads with the Amplifier Board is simple 4 wires pigtail to leave customer the maximum flexibility in the integration within the laser system.

The amplifier board is a standard internal unit embedded within Laser Point's AH series heads, but can also be purchased separately by those OEM customers who want to develop their own measurement set-up.



Amplification

Factory set to provide a high sensitivity to the sensor. The full scale is always 5V and full scale sensitivity ranges between 1V/W to 25mV/W for the 200 W sensors

Signal Speed-up

Sensors output signals are accelerated to provide the final value of laser power very quickly. The 10W sensors can go from 0-95% in just 0.35 sec.

Noise Filtering

High frequency noise from environment is completely reduced by the integrated low-pass filtering device.

■ Specifications

- **Output voltage, Full Scale:** 5V
- **Min. detectable voltage :** 5mV
- **Total sensitivity:** 5V/ Max Power Value for the sensor in use
- **Linearity:** $\pm 1\%$
- **Max power values:** 5W,10W,20W,50W,100W,200W, depending on sensor type
- **Minimum detectable power:** 1/1000 of Full Scale
- **Head response times:** 0.8 sec.typ,
- **Supply voltages range :** $\pm 7\text{VDC}$ to $\pm 12\text{VDC}$ or 14 to 24VDC floating.
- **Board Dimensions:** Dia 43mmx10mm

