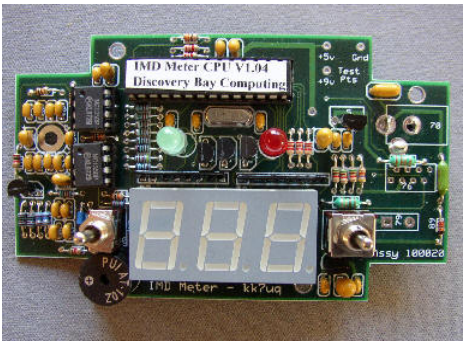



IMD Meter by kk7uq

 A photograph of the IMD Meter PCB assembly. It is a green printed circuit board populated with various electronic components including resistors, capacitors, a microcontroller, and a 3-digit LED display showing '888'. A label on the board reads 'IMD Meter CPU V1.04 Discovery Bay Computing'. A small antenna is visible on the left side.	 A photograph of the IMD Meter in its metal enclosure. The front panel features a logo 'IMD METER by kk7uq', two status LEDs (green for 'Good < -23' and red for 'IMD > -20 < Poor'), a 3-digit red LED display showing '-31', and two control buttons labeled 'ON' and 'OFF'. Input ports for 'PSK63', 'PSK31', and 'FS' are on the left, and an 'AUX.' port is on the right. The text 'IMD dB' is printed below the display.
IMD Meter PCB Assembly	The <i>IMD Meter by kk7uq</i> in operation

Here's the best and most accurate way to monitor your transmitted PSK IMD. The *IMD Meter by kk7uq* displays your transmitted BPSK or QPSK IMD readout on an easy to read LED panel immediately and in real time. There are no connections to your radio, coax or PC. This is a true stand-alone IMD Meter.

The *IMD Meter by kk7uq* works like this: the transmitted PSK RF signal from your antenna is picked up by the telescoping antenna on the meter and fed into an AGC controlled wide band RF amplifier. The RF wave form of the signal is diode detected, then sampled with an A/D converter under the control of an on-board micro-controller. The shape of the wave form is then analyzed by the micro-controller's firmware and the IMD value is calculated and then displayed on the IMD Meter's large 3 digit LED readout.

The signal quality is measured by analyzing the shape of the wave form allowing accurate IMD readings to be produced in real time while transmitting - both in IDLE mode and even as you are transmitting text. It also adjusts to your transmitted signal levels automatically and handles QRP to QRO RF output. There are no levels to set or knobs to twist here. Just turn it on and it analyzes and displays automatically.

The *IMD Meter by kk7uq* also doubles as a relative HF Field Strength meter with calibration approximately 1 dB per unit.

The complete enclosure sports a very small footprint: 2.75H x 4.5W x 1.75D (inches) and weighs just 5 ounces. The telescoping antenna extends from 5.5 to 20 inches.

The *IMD Meter by kk7uq* is available in kit form or can be purchased assembled and tested ready to use. See web site <http://KK7UQ.com> for full specifications, design, user manuals, pricing and availability.