

PLT M1501/PLT M1503 SmartMeter Powerline Tester

- Measurement and testing of physical level of PLC communication
- Designed for G3-PLC (CENELEC-A and FCC band), CENELEC-S FSK or PRIME communication technology
- 1-phase (PLT M1501), 3-phase (PLT M1503), Broadband (PLT M1501-[BB]) or Current measuring (PLT M1501-[C]) operation
- Spectral analysis in narrowband 20kHz-500kHz (CENELEC-A and FCC band) or 50MHz broadband frequency bandwidth
- PLT sniffing possibility for G3-PLC (CEN-A, FCC) and PRIME standards
- **Web browser** used for full device operation
- Online viewing of recorded data files and online file browsing
- Offline PC-based "Offline PLT Viewer" SW for recorded data analysis included
- Roll-oscilloscope time analysis in 20kHz-500kHz or up to 50MHz frequency bandwidth
- Remote operation via Wi-Fi or LTE modem (option) for remote control and measurements through VPN
- Simple (button-less) on-site usage (connect & go)
- Solid manufacturing and safe use in all demanding environments (CAT IV compliance for TS measurements)



PLT M1501/PLT M1503

This product represents testing equipment in the form of a spectrum analyzer enabling the observation and logging of physical levels of PLC communication such as levels of PLC frequency carriers, disturbances, noise or other unwanted frequency harmonics, within narrowband frequency bandwidths ranging from 20kHz to 500kHz or up to 50MHz with the broadband option. It solves the measurement part of the PLC network cleanup process giving a direct insight into the quality of PLC signals on the low voltage AC line (up to 250VAC).



- Designed for G3-PLC (both CENELEC-A and FCC band), CENELEC-S FSK or PRIME communication technology analysis in narrowband 20kHz-500kHz (CENELEC-A and FCC band) or 50MHz broadband frequency bandwidth
- 1 phase (PLT M1501), 3 phase (PLT M1503), Broadband (PLT M1501-[BB]) or Current measuring (PLT M1501-[C]) devices available
- A web browser used for data monitoring and data logging operations on a PC or any iOS or Android mobile device
- Online viewing of recorded data files through an integrated slider-based viewer and online browsing, deleting and downloading of recorded data
- PLC sniffing option with the PLT Tracer for G3-PLC (CEN-A and FCC) and PRIME PLC standards. Real time monitoring and recording of packets shown simultaneously with the spectrum.
- PC-based "Offline PLT Viewer" SW for analyzing recorded data is included with the device enabling 3D heatmap analysis and animated gif creation of multiple records at the same time
- Time based roll-oscilloscope signal analysis available for much easier immediate transmit/receive PLC signal recognition
- Data recorder logging is implemented either on-board the device or at the server side either on-demand, amplitude/frequency trigger-based or timer based
- Data recording is done on an 8GB or (optionally) 32GB flash memory which is enough for over 400 thousand (8GB) or 1.5 million (32GB) stored spectrum frames

- Data files are stored in user-friendly csv or animated gif format at configurable time intervals
- Remote operation via LTE modem (option) enabling operation from the office through a secure VPN tunnel

Power

- 230V AC LINE input voltage, micro-USB power supply included
- Rechargeable Li-Ion battery inside
- Over 4h standalone battery operation

Communication

- WiFi operating in access point mode
- LTE USB modem option enabling remote device access via self established VPN connection (modem can be provided)
- Ethernet TCP/IP connection enabling outof-the-box VPN remote access

Enclosure

- Used for specific outdoor and high voltage environment
- Solid construction and design with ABS plastic enclosure in silicone rubber casing

Interface

- USB port (USB OTG)
- Ethernet 1Gb/s

Standard compliance

- CATIV 300V
- EN61010



PLT M1501 (One phase instrument)

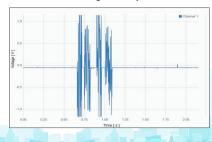




PLC G3 measurement



Time domain PLC signal analysis



remote meter reading issues in AMI systems

