

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
- 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).**

Technical data

- 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
- 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

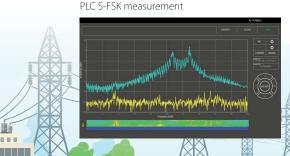


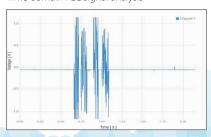






PLC G3 measurement Time domain PLC signal analysis





Solving remote meter reading issues in AMI systems