”POWERFUL AND INVALUABLE”

The MFA500 is an excellent and invaluable hand instrument for field measurement and analysis for PLC communication. It’s a very powerful tool for analyzing the frequency band of 3-500 kHz. When using MFA500 together with the MFA Viewer, we can ensure you a significant increase in your understanding of PLC communication.

- **Field Tools for online analysis of the frequency band 3-500 kHz**
- **Powerful analysis and logging via the PC software MFA Viewer**
- **S-FSK and OFDM**
- **Measurement Category: CAT IV**

TECHNICAL DATA

BATTERY
Rechargeable Lithium-ion via USB.

BATTERY LIFE
Not connected: 3 hours
Connected to PC: automatic charging

CONTACT
Hi-speed Micro USB, galvanic and opto-isolated probe connections

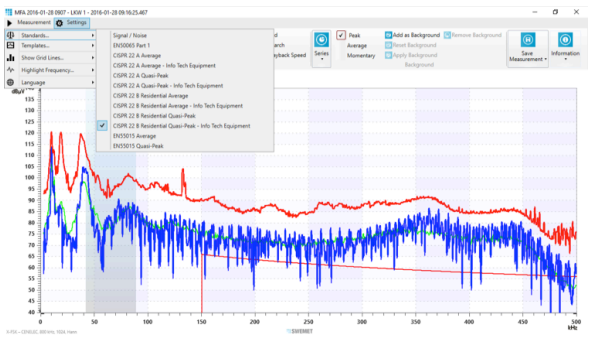
MATERIAL COMPOSITION
Plastic

COVER
Embossed screen print overlay

MEASUREMENT PORTS
Two 4mm female test probe contacts.
Test probes with safety fuses and alligator clips are included

INPUT VOLTAGE RANGE
600 VAC

MEASUREMENT CATEGORY
CAT IV 300V



POWER LINE COMMUNICATION

S-FSK
Addax, Echelon, Echelon C-band, Iskra, Landis+Gyr PLAN, Policom, Senea, Schlumberger

OFDM

G3-PLC	CENELEC A, CENELEC B, FCC, FCC-High, ARIB, ARIB-High
PRIME	1.3.6 and 1.4
IEEE 1902.2	CENELEC A, CENELEC B, FCC, FCC-High

SOFTWARE

The MFA Viewer application displays the frequency band between 3 - 500 kHz in real time. Data is logged by connecting the MFA500 to your PC and starting the software, and recording data to a project file. The MFA Viewer application contains a powerful analysis section where you can study data retrospectively. When recording, the application lets you configure the MFA500 for the PLC system you are using, and the resolution is adjusted accordingly.

To know if a disturbance is effecting your PLC communication, the MFA Viewer adds a ”shaded area” where you can easily and clearly see if a disorder can affect your meter reading system. MFA Viewer shows all data in dB micro-volt, (dBµV). Several standards, such as EMC, are available to use in comparison with real-time measurements and analysis afterwards. The standards are shown with a red line in the MFA Viewer.

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