



Univox[®] FSM

Digital field strength meter

Features

- Choose between RMS or PPM mode
- Real time verification of sufficient field strength for good speech clarity
- An easy to read color-coded LED bar. Highly visible from a distance
- Silicone case for increased comfort and stability when laid flat or on its sides
- Operates over a wide range of 52dB in two stages
- Flat and A-weighted frequency response modes
- Active monitoring with headphones in any mode
- Low battery indication
- 3.5mm headphone jack and volume control
- High quality components for low noise
- The meter is calibrated, in accordance with international standards

For testing and commissioning of induction loops

The Univox FSM Field Strength Meter is a digital meter and listener to commission and test hearing loop systems. It provides a quick and accurate method of monitoring and setting the performance of loop systems. The meter allows for easy and straightforward assessment of magnetic background noise, field strength and frequency response of the system to comply with the requirements of the international hearing loop standard IEC 60118-4.

Two different frequency response characteristics are provided: "NORMAL", which is a restricted response, similar to that of a hearing aid, and "FLAT", which is a wide, flat response, similar to that of an equalized induction loop receiver for wide-band communication. It offers both true RMS and PPM (Peak Programme Meter) display time responses. Both modes are specified by standard IEC 60118-4. The meter comes in RMS mode as default.

The meter is calibrated in two ranges; +8 to -18dB and -18 to -44dB with respect to the field strength of 400mA/m at 1kHz, stipulated in IEC 60118-4, allowing background noise levels to be measured as well as AFILS signal strength. The measured audio signal may be monitored using headphones on all range and filter combinations.

A suite of free audio test signals is available for free download from univox.eu. These may be used on any devices such as tablets, mobile phones, music players and laptops.

Specifications Univox FSM

16 color-coded LEDs:	Green = acceptable Yellow = unacceptable (on high range) Red = out of range
Measuring range:	High range: -18 to +8dB ref 0.4A/m Low range: -44 to -18dB ref 0.4A/m
Calibration accuracy at 400mA/m:	±0.5dB at 1kHz
Resolution:	1dB between -3dB/+6dB and -29/-20dB
Meter display modes (setable):	RMS (125ms) or PPM (Tr=3.5ms, Tf=1.7s for 20dB fall)
Peak Hold display (setable on/off):	Hold peak for 3 seconds, decay at 128ms/LED
A-weighted frequency response:	Accuracy better than ±1dB 100Hz to 10kHz, ±2dB 25Hz to 20kHz
"FLAT" frequency response:	Accuracy better than ±1dB 50Hz to 10kHz, mask as per IEC TR 63079 Annex E
Audio monitor output:	2x12mW into 32 Ohms
Auto power off time:	40 minutes
Standby time:	18 months with alkaline batteries
Run time:	150 hours with alkaline batteries
Battery status indicator:	Solid blue range indicator = good battery, flashing = low battery
Battery type:	2xAA, alkaline or rechargeable
Dimensions:	120 by 78 by 33mm in silicone case 117 by 69 by 28mm without silicone case
Weight:	196g (inc. batteries and silicone case)
Included:	Batteries, silicone case and quick start guide

Please consult the user manual for a complete list of relevant standards as well as RoHS and WEEE.



*The range indicator LEDs flash blue when the battery is low

For more information, please visit univox.eu

