Univox FSM 2.0

Multitone Field Strength Measurement
Microprocessor controlled

Better results, more complex measurements, faster & easier use

Features

- Easy to use µP controlled mesurements
- Clear LCD display for direct flawless reading
- Accurate fast hardware based RMS conversion
- Full IEC 60118-4, <-52dBA measurement
- Reprogrammable for easy updates/new standards
- Quick direkt dB reading for 100, 1000 and 5000Hz
- Complex graphical frequency measurement 16 freq.
- LED shows when each program step is finished
- Measuring range -52dB to +9dB
- Start and program selection
- Hold function
- Auto shut-off
- Light switch for enhanced reading
- Auto range shifting

Univox FSM 2.0 is a professional field strength meter with functions and measurements not seen elsewhere on the market. FSM 2.0 uses a microprocessor (µP) making advanced measurements easy. The multitone measurement automated by the µP, makes accurate and reproducible frequency results superior to pink-noise, and much quicker. All the details are controlled by the µP and the answers are clearly displayed on the backlit LCD screen. All measurement steps are easy to use in a logical sequence following the measurement certificate.

FSM 2.0 is reprogrammable which makes any upgrades of the IEC standard or routines easy to handle. No need to buy a new instrument for an updated/ changed standard.

FSM 2.0 is the only field strength instrument that comply fully with IEC 60118-4, measuring noise down to -47dB. This is possible as all sensitive signals and conversions are hardwired. The digital µP is only used to control the hardware. FSM 2.0 is the only instrument that can easily measure the overspill level hidden behind the background noise due to extremely sharp filters (just a few Hz). The noise spectrum measurement makes it easy to decide if the background noise is clearly audible.

Univox® FSM 2.0 Field Strength Meter

Technical data

Special Measurement programs

1. Background noise measurement down to -52dB relative 400mA/m with no weighted filter
   Background noise measurement down to -52dB relative 400mA/m with A-weighted filter
2. Coverage area, field strength distribution at 1kHz. Reading in dB relative 400mA/m
   Overspill measurement. Measurements can be done below noise level due to very sharp filtering
3. Basic IEC frequency response: 100, 1000, 5000Hz. Reading in dB relative to actual level at 1kHz for easy completion of a certificate form
4. Comprehensive frequency response: 16 simultaneous sine waves (16 bars). Field Strength displayed together with the actual level at 1kHz.
5. Measurement range: >60 dB, with internal resolution better than 0.1dB

Technical specifications

- Controllable high gain/low noise input amplifier stage
- Two controllable super high slope filters. Settable slope and frequency
- Hardwired A-weighted filter
- Separate output amplifier (full spectrum output) for other instruments/computers or phones
- Automatic range shifting

Including signal source in separate wave-format file

- Multitone sine wave frequencies 100, 1000 and 5000Hz simultaneously presented
- Multitone sine wave frequencies with 16 simultaneous frequencies simultaneously presented
- Single 1kHz sine wave frequency

Part No

401040	Univox FSM 2.0, Professional Field Strength Meter
401040ER	Univox FSM 2.0, Professional Field Strength Meter, incl. Etymotic ER-6i earphones

CE

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For additional information, please refer to User Guide/Installation Guide and CE Certificate which can be downloaded from "Product databank" at www.edin.se. If required, spare part list or other technical documents can be ordered at support@edin.se.

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