

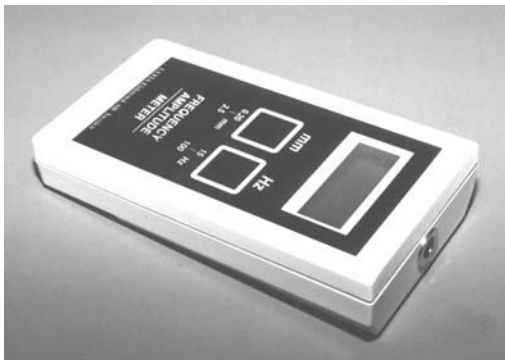
# Frequency & Amplitude Meter

## FAM-2

15 – 100Hz



Carrying case with display unit and sensor.



Display unit.



Sensor unit

## Description.

The ULFIA frequency- and amplitude meter ( FA-meter) is designed for measuring the vibrating frequency and amplitude of mechanical vibrations.  
The FA-meter is battery operated and portable.

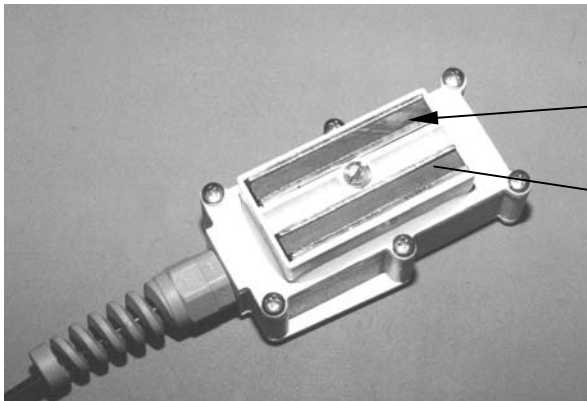
The meter consists of two parts, one sensor unit and one handhold electronic signal conditioner/display unit.

### OPERATION

Connect the sensor to the handhold display unit.

Clean the surface where to place the sensor. This must be done so that the magnets on the sensor could hold the sensor in contact with the vibrating surface.

**\*\*\*\* Place the sensor in correct sensing direction. \*\*\*\***



Attach the **magnets** of the sensor to the vibrating surface.



Sensing direction.



To measure the **frequency**, press the **Hz-key** and keep it pressed until the HOLD indicator is off and you have a stable reading on the display. The frequency is displayed in Hz.

To measure the **amplitude**, press the **mm-key** and keep it pressed until the HOLD indicator is off and you have a stable reading on the display. The amplitude is displayed in mm (peak value).

## LOW BATTERY WARNING and how to change battery :

When the sign **BAT** is visible on the display, the battery voltage is beginning to be too low for correct operation of the instrument.  
The battery should be replaced as soon as possible.

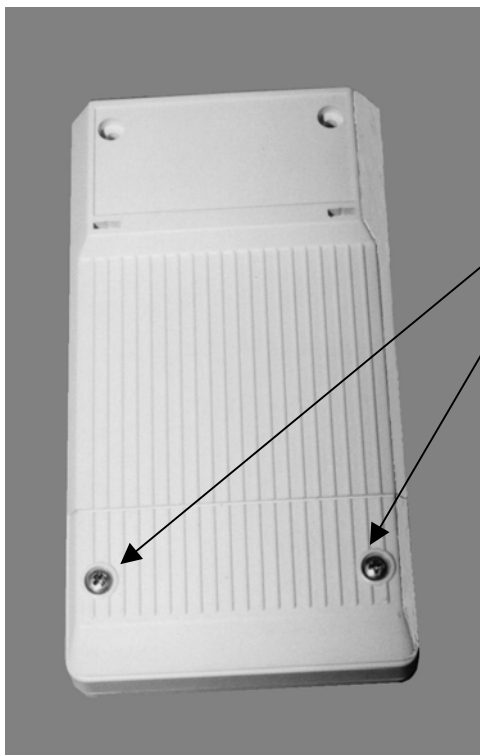
You replace the battery in the following way :

On the rear of the meter, there is a cover for the battery compartment at the lower end of the handheld unit.

Remove the two screws, take away the cover and change to a new battery.

Assemble the unit again.

Be sure that the gasket for the battery compartment is in its correct position.



**Remove** these two **screws**.

Open the lid and **replace** the **battery**.

Be sure that the **gasket** is in the **correct place** when closing the lid.

Mount the two screws.

**Press** the **mm** or **Hz** key to check that there is **no** battery low warning.

## SPECIFICATION

**Environmental conditions :** according to IP65, rain- and dust-proof.

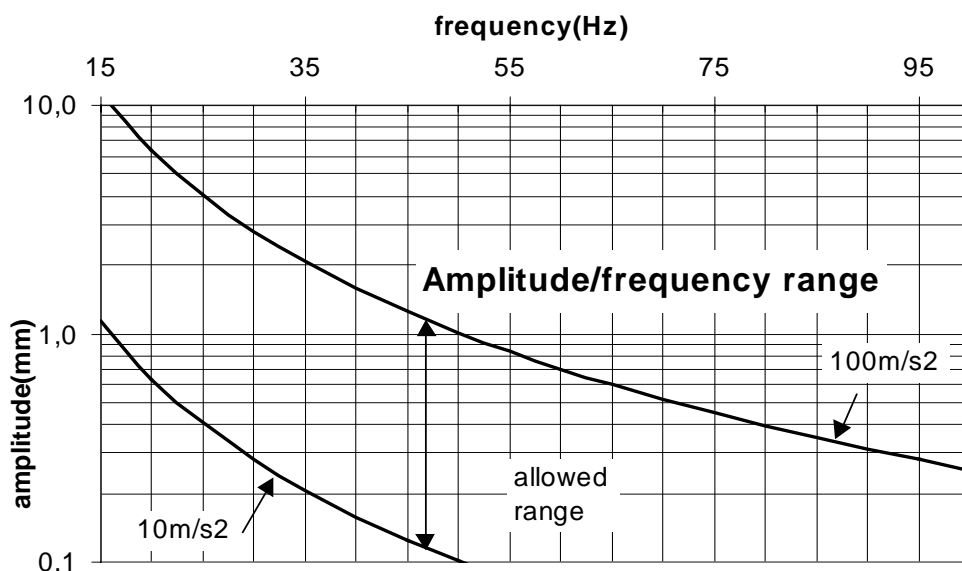
**Ambient temperature :** operation : 0 -- +50°C  
storage : -25 -- +75°C

**Power supply :** internal battery  
type of battery : alkaline, IEC 6LR61 9V  
operation time : 20 hours  
working battery voltage : 8.5 – 9.5V.  
current consumption : 20 mA  
low battery warning : less than 8.6V.

**Measurement range :**

frequency : range : 15.0 -- 100.0 Hz  
resolution : 0.1 Hz  
accuracy :  $\pm 2\% \pm 1$  digit

amplitude : 0.20 -- 2.50 mm (peak) 15 – 100Hz  
with acceleration within 10 -- 100m/s<sup>2</sup> ( $\approx 1$  -- 10g)  
  
resolution : 0.01mm  
accuracy :  $\pm 5\% \pm 1$  digit



**Display :** LCD  
Character height : 12.7mm

**Dimensions :** handheld display unit : 85 x 160 x 30mm  
vibration sensor unit : 30 x 80 x 30mm  
transport case : 275 x 230 x 83mm  
length of sensor cable : 3m

**Weight :** complete unit: 1kg  
sensor unit: 200g