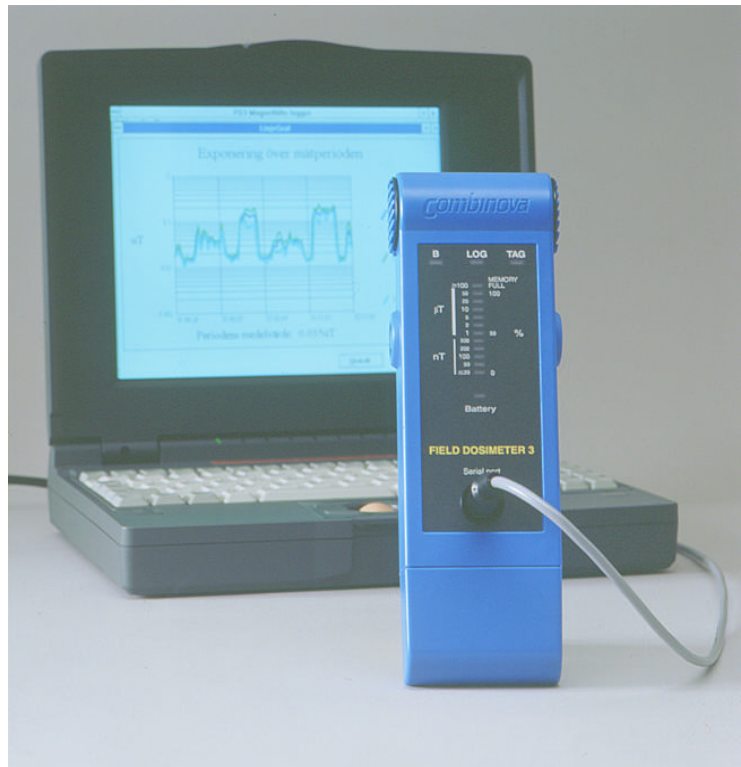


**System FD 3** is a powerful and easy to use tool for data collection and analysis of low frequency magnetic field exposure in industrial, office and residential environments.

**System FD 3** is a combined dosimeter and direct-reading magnetic field meter. The ability to examine magnetic field exposure over periods of an hour, a workday or a 24-hour period provides very useful information about the distribution and variation of magnetic fields against time. A change in the work routine can be all that is required to reduce the total magnetic field exposure.

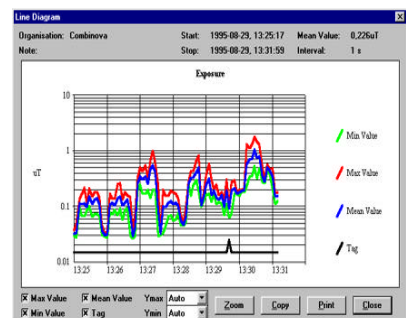
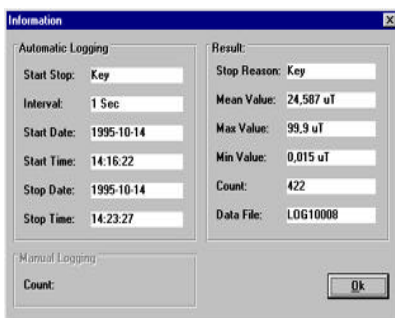
**System FD 3** consists of one or more portable dosimeter instruments for data collection, together with a powerful Windows-based application for measurement configuration, graphical analysis and presentation.



**System FD 3** is used as a automatic dosimeter for exposure measurements where large variations of local magnetic fields occur in a space or over time. The dosimeter is loaded from a personal computer (PC) with measurement interval and mode parameters, date and time, location and contact person.

**System FD 3** can measure the total exposure during a workday or around a special series of events. The dosimeter can store one measurement per second corresponding to 16 hours continuous use. This is equivalent to more than 60 000 measurements.

**System FD 3** combines modern powerful personal computers with the very latest advanced measurement technology. The study of the average magnetic field exposure can give, in many instances, a much clearer view of the work environment.



# SYSTEM FIELD DOSIMETER 3



## TECHNICAL DATA

### Dosimeter

Measurement range:	10 nT - 105 $\mu$ T, manual 10 nT - 99,9 $\mu$ T, logging
Frequency range:	20 - 2 000 Hz, -3dB
Sensor system:	3 axis coil system
Resolution of measured value:	1 %, logging
Measurement accuracy:	+/- 5% at 15-25 °C
Temperature range:	-10 - +40 °C
Data storage memory:	60 000 measurements
Communication:	RS232 with serial adapter
Batteries:	2 x 1.5 V R6 (AA size)
Operating time:	30 hours of measurement
Weight incl batteries:	290 gram
Size:	205x70x35 mm

### Application

#### Manual operation

1-30 measurements per occasion  
Meanvalue is calculated for every measurement

#### Automatic operation

1-600 seconds measurement interval  
- Manual Start/Stop  
- Date/Time  
- Repetition every 24 hours

#### Internal automatic operation

One measurement every 10 seconds

#### Presentation of result

- Linediagram incl max, min and meanvalue  
- Bardigram showing meanvalue per hour  
- Data export using DBF file format

#### Result storage

- 3 axis  
- XYZ separated

#### System requirements

- Intel 80386, 80486 or Pentiumbased PC  
(or compatible) with at least 4 MB of RAM  
- Windows 3.1(or later)  
- One available serial port (COM 1 or COM 2)

#### Order number:

42-01 FD 3 dosimeter (includes batteries and leather protective case)  
42-10 System FD 3 (\*) Swedish version / 220VAC  
42-20 System FD 3 (\*) English version / 110VAC  
42-30 System FD 3 (\*) English version / 220VAC

(\*) System FD 3 includes one dosimeter, serial adaptor, power supply, batteries, leather protective case, program diskettes and user handbook.

#### Warranty:

Warranty includes material and manufacturing failures up to one year after delivery date.

#### Calibration:

The FD 3 dosimeter is adjusted during manufacturing. The individual correctionvalues are digitally stored in an EEPROM. Thereafter is the dosimeter calibrated.

#### Other products from Combinova

FD 1 Measures electric- and magnetic fields in the ELF frequency range (MPR band I)

FD 2 Measures electric- and magnetic fields in the VLF frequencyrange (MPR band II)



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Specifications subject to change without notice.