



DIGITAL DENSITOMETER FMD-12

Characteristics

The digital densitometer FMD-12 is a portable battery-powered densitometer designed for measuring radiograph density using an external light source. It has been developed for use on viewers using standard bulbs, but can equally be used on those with fluorescent and LED light. We recommend recalibration of the instrument using a densitometric step wedge, e.g. FOMASTEP 30.

Technical Description

Densitometer FMD-12 consists of the measuring instrument, the measuring probe, and the connecting shielded cable. The connector for attaching the probe using the shielded cable is located on the face of the instrument under the display and protected against accidental disconnection. The measuring probe is of a pencil design with a plastic black case and it is connected to the instrument using a short detachable cable. The FMD-12 is equipped with semi-automatic zero setting and automatic shut-down when the instrument is not in use.

Instrument Recalibration

The FMD-12 allows for recalibration according to ASME SE-1079 or ASTM E 1079-85 ("Standard practice for calibration of Transmission densitometers") using the setting element located on the upper right side of the instrument. The recommended interval for repeat checking or instrument recalibration is 90 days. For instrument recalibration, we recommend using FOMASTEP 30 densitometric step wedge

OUTFIT CONTAINS:

- Densitometer FMD-12
- Measuring probe
- Connecting cable with a USB connector
- Battery 9V (type 6F22)
- Calibration sheet
- Operating manual
- Carrying case



Advantages of the Instrument

- Very high accuracy thanks to the use of an integrated circuit with a capability to logarithm in 5 decades with an error of 0.2%
- Zeroing with any light
- One of the smallest densitometers in the market

Measuring range	0–4.0 D
Resolution	0.01 D
Precision	±0.05 D (within 0–4.0 D)
Display	Density, +/-, LO-BAT
Zero setting range	In any light
Zero holding time	About 5 min (±0.01 D)
Zero stabilisation time	Max. 1 s
Data stabilisation time	Max. 2 s
Probe opening diam.	2 mm
Power – battery	9 V type IEC 6F22 or 6LR61 9V
Consumption on / off	4.0 mA/0.009 mA
Operating time (meas.)	About 50 hrs (norm. battery)
Control	2 buttons
– on/off	– [0] – zero setting
Automatic turning off	About 5 min after turning on
Ambient temperature	5–35 °C
Dimensions	79 x 118 x 25 mm
Cable length	70 cm
Weight	155 g

FOMA Exclusive Distributor :

Hexagon International (GB) Ltd Tel 01442 871710

www.HexagonLimited.com

info@HexagonLimited.com