

LEM UK LTD

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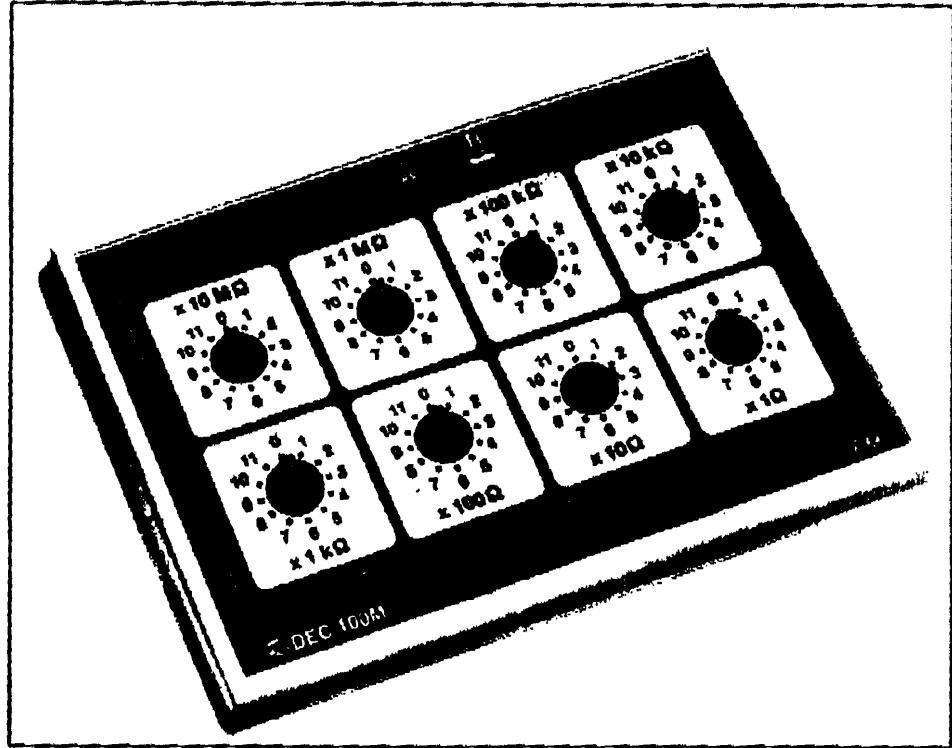
312-2360

Operating Instructions/
Gebrauchsanleitung/
Manuel d'utilisation

R-DEC 100M



Precision R decade/
Präzisions-R-Dekade/
Décade de résistances de précision



ELMES
GOERZ
HEME
NORMA

LEM

Technical Data

5 Technical data

General: Resistance decade from 1 Ω to 122, 222, 221 Ω (122 M Ω); Conforms to EN 60477 / Oct. 1997

Reference temperature range: $23^\circ\text{C} \pm 2^\circ\text{C}$

Storage temperature range: $-20^\circ\text{C} + 60^\circ\text{C}$

Operating temperature: $+5^\circ\text{C} \dots +40^\circ\text{C}$

Class: 0.1

Inherent deviation: $\pm 0.1\% \pm R_0$ within the reference temperature range

Temperature coefficient: 50 ppM /K within the nominal temperature range

Zero resistance: $R_0 = 125 \text{ m}\Omega \pm 50 \text{ m}\Omega$

Long-term stability: < 100ppM for resistance $\leq 1 \text{ M}\Omega$

Climate: Class B2 according to IEC 654-1
 $(+5^\circ\text{C} \dots +40^\circ\text{C}, 5\% \dots 85\% \text{ RH, no dew formation})$

Safety: IP40, conforms to safety class II/double insulated
Fully insulated plastic housing with inner shield

Test voltage: 3,7 kV pursuant to IEC 61010 Part 1 (outwards and against the shield)

Impulse load: For smaller resistances; reduced impulse load depending R value.

Quality standard: Built, designed, and manufactured according to DIN ISO 9001

Max. input voltage to earth: 1000 V CATI pollution degree 1 as per IEC 61010 part 1

Max. voltage SHIELD to resistance inputs: 1000V eff

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Dimensions: 275 mm (W) x 195 mm (D) x 48 mm (H)

Weight: Approx. 0.8 kg without accessories

Housing: ABS, impact-resistant and scratch-proof thermoplastic

ATTENTION!The formation of dew may occur if temperature changes are present. Before operating the instrument, it is necessary to wait for a minimum of 30 minutes at temperatures $> 0 \text{ }^{\circ}\text{C}$.**Note:**Considering the decade zero resistance R_0 , even low ohmic settings can reach an accuracy of below 0.1%.