

Fluxmeter B3

with RS 232 Interface, Maximum Value Memory, Double-Comparator

Together with corresponding measuring coils, for example the following magnetic parameters can be measured with this instrument:

magnetic field strength H * magnetic induction B * magnetic moment M
magnetic potential P * magnetic operating point * internal magnetisation B-H
* magnetic polarisation *



The Fluxmeter B3 is an electronically integrating measuring bench unit with digital display, very low drift and high sensitivity.

Its versatility permits utilisation in the laboratory as well as in production.

Our entire range of measuring coils can be utilised with this instrument to make the B3 an universal instrument for measuring magnetic parameters.

The Fluxmeter B3 has four measuring ranges, in all of which the sensitivity can be adjusted continuously from 10 - 110% with setting controls.

A coarse adjustment and a fine adjustment are provided for the drift compensation.

The Fluxmeter B3 is equipped with an analogue output for connecting a chart recorder or an analogue/digital converter for digital further processing of the output signal.

Accessories: Field coils, potential coils, Helmholtz coils, surrounding coils, spot measurement coils, coils for loudspeaker magnets and counter brake magnets.

Interface: RS 232, maximum value memory, window comparator with relay output

Analogue display AZ1: An analogue display with pointer meter that can be read clearly from a distance of up to 3 metres is available as table instrument for making serial measurements.

The analogue display is connected to the analogue output of the Fluxmeter B3.

An additional power supply is not required.

The respective tolerance range can be marked on the transparent meter cover with a marking pen so that when making the measurements it is unambiguously visible whether the meter pointer is within the tolerance range, indicating that the reading is "good".

Technical Data:

Display	LED-digitaldisplay, 3 1/2 digit, 3 measurements/sec., automatic polarity display, maximum value memory
Measuring ranges (Vs)	$4 \cdot 10^{-4} / 4 \cdot 10^{-3} / 4 \cdot 10^{-2} / 4 \cdot 10^{-1}$
Measuring constant (Vs/Digit)	$10^{-7} / 10^{-6} / 10^{-5} / 10^{-4} \cdot (1 + R_S : 10^4 \Omega)$
Integration constant (s)	$10^{-3} / 10^{-2} / 10^{-1} / 10^0$
Testing accuracy	$\geq 0,5 \%$
Reproducibility	$\geq 0,2 \%$
d□/dt max.	0,06 Vs/ms
Drift	$\leq 10^{-6}$ Vs/min.
Input	A: $R_i = 0 \Omega$; B: $R_i = 10^4 \Omega$
Output	Analogoutput $\pm 199,9$ mV equal 1999 digit, analog output for connecting a chart recorder or an analogue display
Power supply	230 Volt, 50 Hz, ca. 20 VA
Interface	RS 232 (V24), window comparator with relay output
Dimension	520 mm x 165 mm x 330 mm (B x H x T)
Weight	ca. 7 kg

Technical changes reserved! Exclusively the specifications in the offer are binding!