

Milliteslameters ТП2-2У

Portable universal milliteslameter is designed for measuring magnetic induction of constant and variable (average rectified and peak value) magnetic field, as well as of single impulses of magnetic field in the range of 0,01 – 1999 mT.

It is convenient for studying magnetic systems of different purposes, in magnetic powder testing, for measurement of residual magnetization, for testing the magnetic therapeutic equipment of all kinds, and also for monitoring the magnetic fields of various objects in a wide frequency range.



Sensitivity elements	Hall`s sensors
Two measurement probes	axial (type C and C1) and radial (type M and M1)
Measurable quantities	<ul style="list-style-type: none"> • magnetic induction of constant magnetic field; • magnetic induction of variable magnetic field with frequency from 20 Hz to 10 kHz (for modifications ТП2-2У, ТП2-2У-01, ТП2-2У-02); • magnetic induction of impulse magnetic field with pulse duration from 100 μs to 5 s (for modifications ТП2-2У, ТП2-2У-01, ТП2-2У-02).
Observation of the form of variable and pulsed magnetic field when connecting the oscilloscope to the analog output is allowed.	
Limits of measurement (Al)	20 mT, 200 mT, 2000 mT for modification ТП2-2У
Uncertainty Δo, %	<p>when measuring constant magnetic field: $\Delta o = \pm [2,0 + 0,1 (A_i/A_m - 1)]$</p> <p>when measuring variable magnetic field: $\Delta o = \pm [2,5 + 0,2 (A_i/A_m - 1)]$</p> <p>when measuring impulse magnetic field: $\Delta o = \pm [5,0 + 0,5 (A_i/A_m - 1)]$</p>

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Depending on the measured quantities and their measurement ranges, the milliteslameter ТП2-2У produced in seven versions:

Version	Measured magnetic induction of magnetic field			Limits of measurement
	constant	variable	impulse	
ТП2-2У	+	+	+	20, 200, 2000 mT
ТП2-2У-01	+	+	+	2, 20, 200 mT
ТП2-2У-02	+	+	+	200, 2000 mT, 20 T
ТП2-2У-03	+	-	-	20, 200, 2000 mT
ТП2-2У-04	+	-	-	2, 20, 200 mT
ТП2-2У-05	+	-	-	200, 2000 mT, 20 T
ТП2-2У-08	+	-	-	2000 mT