



CONDUCTIVITY METER

MOBILE MEASURING DEVICE PRODUCT SERIES MLA1000-TX



The portable measuring device for electrical conductivity and temperature in light mineral oils

MLA1000-TX



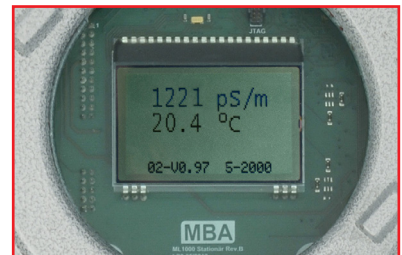
- + *extended measuring range up to 15.000 pS/m*
- + *simultaneous determination of the temperature*
- + *robust metal housing*
- + *electronic self-test without control liquid*



Robust and easy to clean Measuring probe



Pressureproof and encapsulated Metal housing



Digital display of conductivity and temperature



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MLA1000-TX: the measuring instrument for mobile use in the laboratory.

The MLA1000-TX measures the electrical conductivity and temperature of liquids, such as light mineral oils and solvents in plants and laboratories without a defined ATEX zone. The device indicates whether the safety-relevant conductivity value has been achieved by sufficient addition of additives. Liquids with insufficient electrical conductivity can become electrostatically charged through various processes such as filling and emptying containers, pumping, stirring, mixing and spraying. If these are flammable liquids, there is a risk of ignition through sparking during electrostatic discharge. In petroleum products such as kerosene, light mineral oils as well as solvents, the conductivity is therefore increased by additives - thus the electrostatic charge is diverted to the tank or pipeline wall. In the Technical Rules for Hazardous Substances (TRGS 727), the safe handling of liquids is described in order to "avoid ignition hazards due to electrostatic charges". These technical rules recommend that the conductivity be checked and documented in the event of danger from electrostatic charges. This determination and classification of liquids according to their conductivity in pS/m can be carried out with the MLA1000-TX.

Application areas:

Light mineral oils, such as kerosene (Jet A-1);
rolling oil; hydraulic oil; solvents; release fluid...



TECHNICAL DESCRIPTION

Measured values and tolerances

Measurement range:	5 ... 10.000 pS/m or 5 ... 15.000 pS/m
Temperature:	-20 ... +60 °C

Measurement accuracy

Electrical conductivity:	5 ... 100 pS/m ± 5 pS/m over 100 pS/m ± 2 % of the measured value
Temperature:	± 0.5 °C of the measured value

Measurement value outputs

Display on the unit:	Electrical conductivity, temperature and instrument status
Signal output:	Electrical conductivity: 4 ... 20 mA / Temperature: 4 ... 20 mA 24 mA: Measurement value exceeded / 0 mA: Error

Supply voltage

Power supply:	Power supply with 24 V DC ($\pm 10\%$) / Performance: 5 W
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Product features

Probe:	Surface nickel-plated
Cable length display/probe:	2 m
Housing protection Display unit:	IP65

Scope of delivery

Display unit, measuring probe, power supply unit, carrying case,
Test certificate, works calibration certificate