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Linear displacement measuring device **MPL508**

Eight-channel measuring device MPL508, is used to work with LVDT transducers AC/AC series based on differential transformer principle. Each channel is calibrated individually together with a LVDT transducer to work with it. Output signals are carried to sockets placed on the rear plate of device. There is a possibility to read out these signals on built-in display.

TECHNICAL DATA

■ Power Supply
- voltage: 230 V / 50Hz
- power consumption: ≤ 10VA

■ Outputs:
- number of outputs: 8
- output voltage: 0 ÷ 10VDC or ±10VDC
- load resistance: > 2kΩ
- output socket kind : BNC50

■ Digital display
- display range: 3½ digit (1999)
- display: LED 1 mm, red
- display units: V
- measure range: 0 ÷ 10,00 V(±10V)
- max. measure range: 0 ÷ 19,99 V(±19,99V)
- sample frequency: 3 times during one second
- over-range signal.: only the first digit is “1”
- minus polarity sign. : " - "
- measure error 0,3% ± one digit

■ Other parameters:
- operating temperature: 0 ... 70 ^{o}C
- relative humidity : ≤ 90%
- enclosure protection: IP 30
- dimensions (wxdxh): 340x270x150 mm
- mass about 4,2 kg

■ Inputs
- number of inputs: 8
- input symmetrical resistance: > 100kΩ
- input socket kind: C091 T3362 000 (Amphenol-Tuchel Electronics GmbH)

■ Measure frequency band (3dB): apr. 200Hz

■ Measure generator
- output voltage: 2 Vrms
- frequency: 5 kHz

■ Ambient conditions of basic error measurement:
(basic error = linearity + histeresis + repeatability)
- temperature: 20 ^{o}C ± 1^{o}C
- relative humidity: 45 ... 75 %
- pressure: 860 ... 1060 hPa
- power supply: nominal value (230V DC)

■ Errors
- total basic error: ≤ 0.5% (option 0.25%)
- additional error: ≤ 0.03 %/^{0}C