

analogue measuring instruments  
AC – current or voltage



48x48 | 72x72  
96x96 | 144x144 - DIN 43700  
moving coil with rectifier  
class 1.5

MR48 | MR72 | MR96 | MR144

These instruments are constructed for the measurement of alternating current, from 25 to 10.000Hz and are gauged for reading the effective value of the sinusoidal current. For other wave forms please consult us.

## display

pointer  
unit  
accuracy class referred to the full-scale value  
scale color  
scale division  
changeable scale plates

black conform to DIN 43802 – scale plate division 90°  
A, V or on request  
1,5  
scale plate: white – division and numbers: black  
rough - Fine  
yes

## input

connection  
ranges

direct or with current transformer  
 $\mu$ A : 50 | 60 | 100 | 150 | 250 | 400 | 600  
 mA: 1 | 1,5 | 2,5 | 4 | 5 | 6 | 10 | 15 | 20 | 25 | 40 | 60 | 100 | 150 |  
 250 | 400 | 500 | 600  
 A : 1 | 1,5 | 2,5 | 4 | 5  
 mV: 60 | 100 | 150 | 250 | 400 | 600  
 V : 6 | 10 | 15 | 20 | 25 | 30 | 40 | 60 | 100 | 150 | 250 | 300 |  
 400 | 500 | 600V  
 ammeter: up to 600mA = 1 - 1,5V over 600mA = 0,25VA  
 voltmeter: about 1mA

burden

## standards

technical characteristics  
safety standards  
safety CE EN 61010-1:2001-11

CENELEC HD 233, CEI 85-3, IEC51, VDE0410, BS89, C42-100  
CENELEC HD 215, CEI13-10, IEC414, DIN57410, BS5458  
CAT III

## ARBEITSBEDINGUNGEN

reference temperature  
operating temperature  
effect temperature  
storage temperature

20°C +/- 1°C  
20°C +/- 10°C (-10...+55°C without damage in continuous service)  
+/- 0,05% / °C  
-40...+70°C

## housing

front frame  
mounting  
depth of housing  
connection  
housing  
protection

48x48 | 72x72 | 96x96 | 144x144  
panel  
53mm (with terminal cover 63mm)  
screws  
themoplastic according to UL-94, V-O classification  
IP52 (inside of instrument) | IP00 (terminals) | IP20 (with terminal cover)  
option: AKIP54 = IP54 with additional rubber  
AKIP65 = IP65 with additional rubber and plexiglass  
ca. 0,10... 0,45 kg

weight

connection / dimensions

