

## STANDARDS

GANZ measuring instruments are made according to the EN 60051, EN 61010-1, and DIN 43780 standards.

## CLASS OF ACCURACY

0.5 , 1 , 1.5 , 2.5 , 3

The accuracy of the instruments is indicated on the de-tailed data sheets.

## CASE

The dimensions of the cases and the cut-outs comply with the standard DIN 43700. The instrument cases are made of inflammable plastic according UL 94 V-1 or steel plate. See at the detailed technical data sheet. The frame dimensions of the instruments comply with the standards DIN 43718. The standard colour is black RAL 9005. On request, we can also supply with grey frame RAL 7037, RAL 7035, RAL 7032.

On special request, the instruments will be supplied with terminal cover.

## POINTER

The pointer correspond to DIN 43802.  
(standard version : stick pointer)

## ZERO SETTING

The zero-setting knob is on the front plate.

## FIXING

The instruments with plastic case are equipped with special built-on fixing elements.

The instruments with metal case can be supplied either by spring-type fixing elements up to 1...3 mm panel thickness (DIN 43835 "A"), or by screw-type clips up to 1...40 mm panel thickness (DIN 43835 "B") (Excepting the instruments in plastic case).

## VIBRATIONS

The instruments will withstand a minimum vibration of  $\pm 0.25$  mm amplitude at a frequency of 50 Hz, corresponding to 2.5 g ( $g=9.81 \text{ m/s}^2$ ). The vibration may be imposed in three mutually perpendicular directions for 20 minutes.

## SHOCKPROOFNESS

The instruments will withstand shocks in three mutually perpendicular directions, even when applying five consecutive shocks at acceleration of 15 g achieved by the high quality shockproof spring-type stone bearing.

## WORKING POSITION

The related symbol is indicated on the scale or on a separate data plate. (If it's not indicated, the instruments can be used in any position.)

The accuracy requirements refer only to the working position.

- $\perp$  vertical mounting
- $\lrcorner$  horizontal mounting
- $\angle 60^\circ$  inclined mounting e.g. the angle to the horizontal is  $60^\circ$  (see Figure 1)

The normal execution is for front mounting (vertical position  $\perp \alpha = 90^\circ$ ). In case of different installation the working position should be indicated in the order.

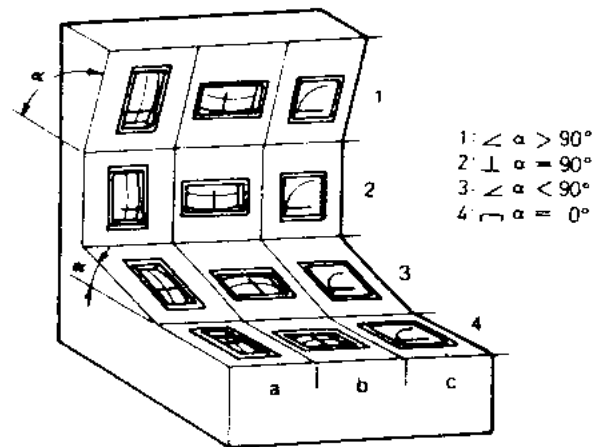


Figure 1

**SAFETY:** CAT. III. 600V

## VOLTAGE TEST

The instruments comply with the standards EN 61010-1,

## PROTECTION

Casing : IP 50

Terminals : IP 00, EN 60529

## ENVIRONMENT

Calibration is for an ambient temperature of  $+20^\circ\text{C}$

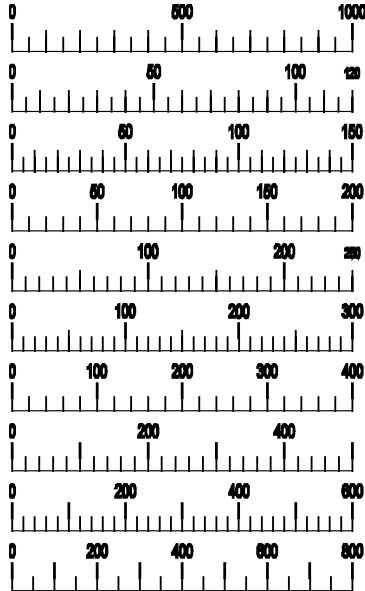
Operating temperature range :  $-25 \dots +55^\circ\text{C}$

Relative humidity :  $\alpha < 75 \%$

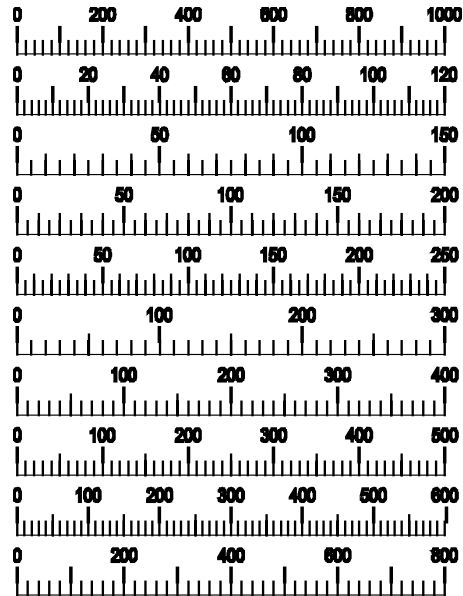


### SCALES

The standard scales of our instruments (frame size 48x48, 72x72, 72x36, 72x24, 96x96, 96x48, 96x24 mm) are as follows (scale length 40-89 mm) :



for the rest of the instruments (scale length 90-179 mm) :



### DECLARATION OF CONFORMITY



according to ISO/IEC guide 22 and EN45014

Manufacturer's name: GANZ Instruments Ltd.  
 Manufacturer's address: H-1701 Budapest, Üllői út 200.  
 H-1701 Budapest, P.O.B. 58

Declares, that the product

Product name: SWITCHBOARD INSTRUMENT

has been manufactured to the technical specifications of the product and conforms in all respects to the relevant standards and regulations in force and especially to:

- EN 60051-1...-9                      EN 50081-1
- EN 61010-1                              EN 50082-1
- EN 60529

The product hereby fulfil the requirements of the low voltage directive 72/23/EEC and the EMC directive 89/336/EEC amended by 93/68/EEC