

DIS6

ARDETEM



DGS6

SFERE



Measurement of AC/DC TRMS voltage and current

*The DIS/DGS are highly accurate **universal programmable digital panel meters**, with **IP 65** front face protection.*

These instruments are equipped with a display of four 10mm high red digits, whose brightness suits applications in industrial control rooms perfectly, and a 4-key keyboard allowing an easy programming. They allow the display and control of all measurable magnitudes.

Introduction

Universal power supply:

20 to 270Vac 50/60/400 Hz and 20 to 300Vdc
Power draw: 1 W max. 3 VA max.

Input:

Current: 1A or 5A
Voltage: 150V or 500V
Frequency of the input signal: DC or from 10Hz to 1kHz
Measurable overrange: 1.2 In or Un
Accuracy:
0.2% of the MR for a peak factor lower than 2
0.5% of the MR for a peak factor between 2 and 5

Galvanic partition:

2.5 kV eff 50 Hz 1 Mn, between supply and input.

Functions:

- Scale factor programmable.
- Measurement and display of the input signal frequency.
- Cut off programmable.
- Programmable filter: allows stabilising the display in case of unsteady input.
- Scale shifting (slope and offset)
- Quick reading of the input signal electrical value as well as the min. and max. values
- Setting of the display brightness.
- Programming protected by access code.

Display:

Electroluminescent red (green on request)
-2000 / + 10 000 points (10 mm)

Environment:

- IP65 front face protection.
- Installation category: II
- Pollution degree: 1
- Operating temperature: -5 to 55°C.
- Storage temperature: -30°C to +80°C.
- Relative dampness: 80% annual average.
- Wiring on plug-in screw terminals (for 2,5 mm² cable , flexible or rigid).
- Case of self-extinguishing UL 94 VO polycarbonate.
- Weight: 100g (with packaging).

Standards:

CE marking

EMC: standards IEC61000-6-4 on rejections and IEC61000-6-2 immunity (industrial environment)
(IEC 61000-4-2 level 3, IEC 61000-4-3 level 3, IEC 61000-4-4 level 4, IEC 61000-4-6 level 3)
Electrical safety: EN61010-1

Types:

ARDETEM reference: DIS 6
SFERE reference: DGS 6



Technical features at 23°C

DIS6/DGS6

Current caliber: 1A or 5A

Voltage caliber: 150V or 500V

Measurable overrange: 1.2 times the input caliber

Permanent overload: 10A or 750V

Overload during 10 Sec: 50A or 1000V

Frequency of the input signal: DC or from 10Hz to 1000Hz

Accuracy: 0.2% of the MR for a peak factor lower than 2

0.5% of the MR for a peak factor between 2 and 5

Input impedance: > 1 Mohm for the voltage input and <0.7VA for the current input

Thermal drift: < 150ppm/°C

Universal power supply: 20...300Vdc and 20...270Vac 50/60/400Hz

Power draw: 1W max. 3VA max.

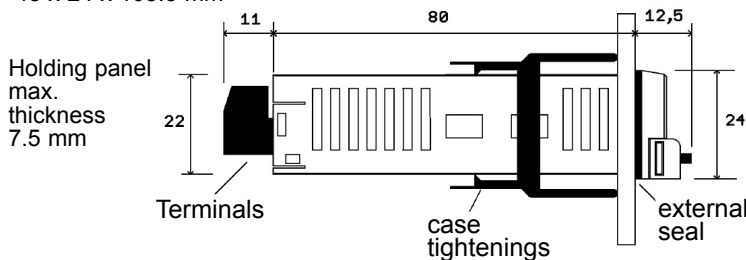
Isolation: 2.5kV 50Hz 1 min. between supply and input

Operating temperature: -5°C to +55°C

Wiring / dimensions

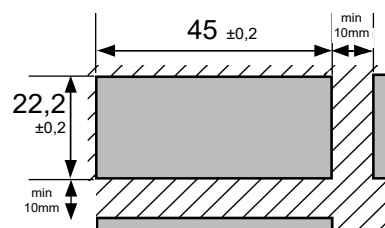
Dimensions of the case: (with terminals)

48 x 24 x 103.5 mm

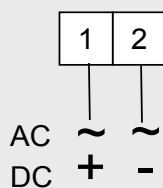


Panel mounting

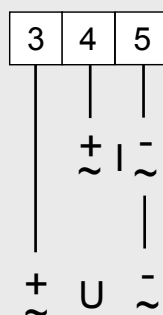
cut out 22.2 x 45 mm



POWER SUPPLY



INPUTS



view of case rear side



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