# SGD 24-M
## Multifunction Graphics Meter

## FEATURES

- Large 2.4" colour TFT screen.
- Supplied with free Windows design software, to setup and customise the display. Compatible with Windows XP, 2000, Vista and Windows 7 (32-bit)
- 6 types of meter included free
- Option to download other types of meter from the Lascar website
- Programmable with the USB interface
- Simple panel mounting solution
- Screw terminal connections
- Wide operating voltage of 4V – 30V d.c.
- 0 – 40V d.c. measurement range

The SGD 24-M is a multifunction graphics meter with a 320 x 240 pixel colour display and USB programming interface. Using the supplied Windows compatible software package, it is possible to setup the meter, including the appearance of the meter (i.e. 3.5 digit voltmeter, bar graph and analogue style meter), colours and input voltage scaling.

When setup is complete, the settings can be saved and then uploaded to the meter using the supplied USB cable. Panel or enclosure installation of the finished module is simple, using 6 screw terminals and a panel fixing clip.

| Specification | Minimum | Typical | Maximum | Unit |
|---|---|---|---|---|
| Linearity | | | ±1 | Count |
| Sample rate | | 3 | | Samples / second |
| Operating temperature range | 0 (+32) | | +40 (+104) | °C (°F) |
| Supply voltage | 4 | | 30 | V d.c. |
| Measurement voltage (single ended only)* | 0 | | 40 | V d.c. |
| Supply current @ 5V | | 95 | | mA |

\* The GFX-DPM1 uses a programmable gain amplifier. The maximum signal voltage is defined in the software at the time of setup up to an absolute maximum of 40V dc. Exceeding the maximum voltage specified in the software may result in permanent damage to the module.

## SCREW TERMINAL FUNCTIONS

V+      Positive power supply input (4V – 30V d.c.)
0V      0V power supply input
AL1     Alarm output 1
AL2     Alarm output 2
INHI    Analogue voltage input (maximum of 40V d.c.)
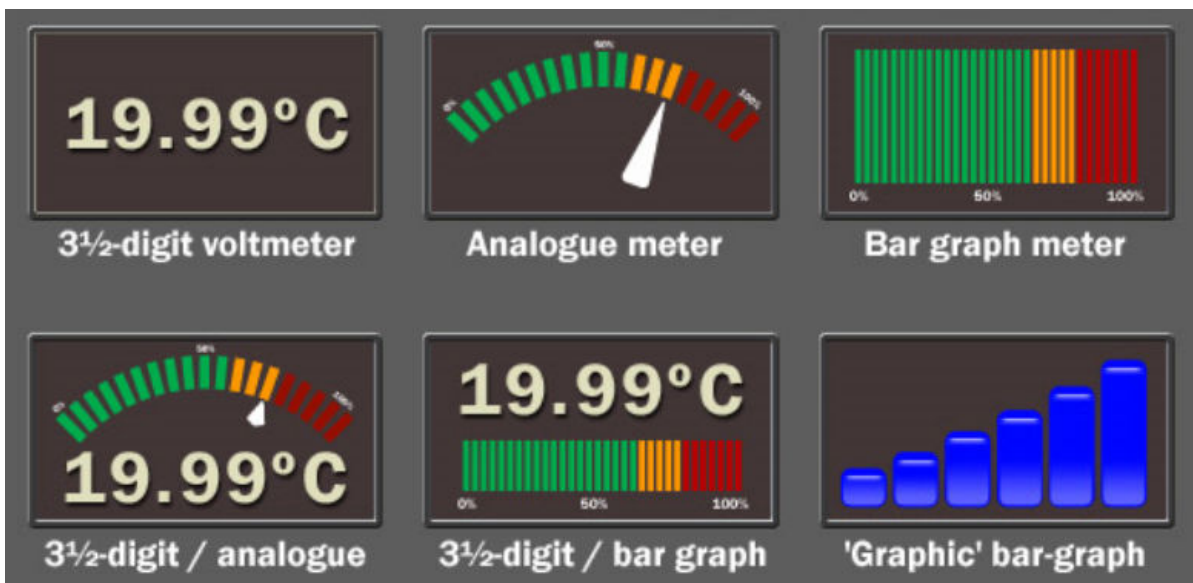INLO    Analogue voltage ground (internally tied to power supply 0V)

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### SMART GRAPHICS SOFTWARE

Lascar's smart graphics software is supplied free of charge with each display. Easy to install and use, the control software runs under Windows 2000, XP (Home and Professional Editions), Vista (32-bit) and Windows 7. The software is used to set-up the appearance and operation of the meter and then download this information to the display.

6 types of meter are supplied with the software, as below. Additional meters will be made available via the Lascar Electronics website, in the future.



The software allows the following parameters to be configured:

- Meter type
- Text labels (including units and graph labels)
- Background, graph segment and text colours
- Input scaling / calibration (at two points)
- Splashscreen image selection (to display a user image when the display is powered up)



**EasyLog**     www.lascarelectronics.com     **LASCAR** electronics