

**SGD 24-M** (2.4" Programmable TFT Panel Meter)



S - Normally Stock  
 L - Limited Stock  
 O - Ex Order

**LASCAR** PANEL PILOT

**SGD 28-M** (2.8" Programmable TFT Panel Meter)



S - Normally Stock  
 L - Limited Stock  
 O - Ex Order

**SGD 35-M** (3.5" Programmable TFT Panel Meter)



S - Normally Stock  
 L - Limited Stock  
 O - Ex Order

The SGD series are programmable panel meters featuring dual analogue inputs, alarm outputs and 2.4";2.8" or 3.5" TFT colour touchscreen display options. Configured using the free PanelPilot M Software, choose from an ever-increasing number of configurations including bar-graph, tank level, analogue style and trend graphs. Then customise colours, text labels, units and input scaling before uploading to a display via USB.

- Display: 2.4", 2.8" or 3.5" colour TFT screen
- Resolution: 320x240 pixels (QVGA)
- Operating Voltage: 4 - 30V d.c.
- Measurement Range: 0 - 40V d.c.



**SGD 24-M420**  
**SGD 28-M420**  
 (2.4";2.8" Programmable TFT 4-20mA Meter)



**SGD 24-M-IP**  
 (2.4" Waterproof Programmable TFT Panel Meter)  
**SGD 24-M-IP420**  
 (2.4" Waterproof Programmable TFT 4-20mA Panel Meter)



**SGD 35-M420**  
 (3.5" Programmable TFT 4-20mA Loop Meter)

**SGD 43-A** (4.3" Display with Analogue, Digital, PWM and Serial Interfaces)



S - Normally Stock  
 L - Limited Stock  
 O - Ex Order

**SGD 70-A** (7" Display with Analogue, Digital, PWM and Serial Interfaces)



S - Normally Stock  
 L - Limited Stock  
 O - Ex Order

SGD 70-A is a 7" AND SGD 43-A is a 4.3" are capacitive touch displays designed for use with PanelPilotACE Design Studio, a free drag-and-drop style software package for rapid development of advanced user interfaces and panel meters. This off the shelf display features a wealth of hardware interfaces, including four 16-bit bipolar analogue inputs (to a maximum of ±40V d.c.), eight digital input/output pins, two alarm outputs, four 8-bit PWM outputs, serial RS232 and RS485 and an additional add on board to measure temperature.



**SGD 43-A**

**SGD 43-A**

- Display: 4.3" TFT with 262k colours
- Touchscreen: Capacitive touch screen
- Resolution: 480 x 272px
- Processor: Freescale i.MX283 (454MHz, 32bit, ARM 9)
- Analogue Inputs: Four 16-bit to ±40V d.c.
- Supply: 5 to 30V d.c. (300mA typical at 5V d.c.)
- Outside Dimensions: 119.3mm (4.7") x 79.8mm (3.1") x 20.0mm (0.8")



**SGD 70-A**

**SGD 70-A**

- Display: 7" TFT with 16.7M colours
- Touchscreen: Capacitive touch screen
- Resolution: 1024 x 600 pixel
- Processor: Freescale i.MX 6SoloX (ARM Cortex A9 & M4)
- Analogue Inputs: Four 16-bit to ±40V d.c.
- Supply: 5 to 30V d.c. (300mA typical at 5V d.c.)
- Outside Dimensions: 186mm (7.3") x 122mm (4.3") x 21mm (0.8")



**SGD 43-ATP**  
 4 channel Temp data logger

Can also be used for data logging

**SGD 43-ATP**

- 4.3" panel mounted display module with capacitive touch screen
- 4 channel thermistor temperature board
- 4 x temp probes
- -40°C to +125°C

**SGD 70-ATP**

- 7" panel mounted display module with capacitive touch screen
- 4 channel thermistor temperature board
- 4 x temp probes
- -40°C to +125°C



**SGD 70-ATP**  
 4 channel Temp data logger



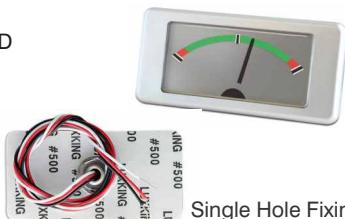
S - Normally Stock  
L - Limited Stock  
O - Ex Order

**LASCAR**

A series of low profile digital panel meters, designed to be mounted in a 5.5mm (7/32") diameter hole. The EM series has a splashproof option, by fitting the rubber seal provided, when installing the meters. All have a bezel size of 44x21mm.

### EMA 1710 (Analog DC Voltmeter)

- 9 segment virtual analog LCD
- Colour scale
- Auto-zero
- 1V full scale deflection
- No calibration required
- 3 wire connection



Single Hole Fixing.

### EMT 1900 (Thermometer)

- 3 digit LCD with °C and °F
- 12.5mm (0.5") digit height
- 4 measurement ranges
- Internal or external sensor
- 5 wire connection



Single Hole Fixing.

### EMV 1025S-01 (DC Voltmeter)

- 3½ digit LCD with low batt .sign
- 12.5mm (0.5") digit height
- 200mV full scale reading
- 3 wire connection



Single Hole Fixing.

### EMV 1200 (2 Wire DC Voltmeter)

#### EMV 1200-40 1-40V d.c Version

- 3 digit LCD
- 12.5mm (0.5") digit height
- Signal powered
- Range: 4-25V
- Reverse polarity protection
- No calibration required
- 2 wire connection



Single Hole Fixing.

### EMV 1125 (DC Voltmeter)

- 3½ digit LCD low battery warning
- 12.5mm (0.5") digit height
- Programmable decimal points
- Auto-zero, auto polarity
- 6-10 wire connection
- Supplied with screw terminal board



Single Hole Fixing.

### EMC 1500 (Elapsed hour meter Single-Hole Mounting)

- 5 digit LCD with annunciators
- 9.0mm (0.35") digit height
- Volt sense input
- Reset and trip/total inputs
- Leading zero blanking input
- Pulse output every hour
- Remembers elapsed time on power loss
- 3-8 wire connection



Single Hole Fixing.



S - Normally Stock  
L - Limited Stock  
O - Ex Order

**LASCAR**

The EM32 Series consists of an LCD and LED digital voltmeter designed to be panel mounted in most low and medium volume applications. Panel cut-out:  $\phi$ 32.5mm. These meters feature an 8mm digit height, 3½ or 4 digit display, 3 decimal points, auto-polarity, auto zero, 200mV full scale reading and low current consumption. Each product has been designed so that NO soldering is required. Connection is via screw terminals & options are selected via jumper links. The modules feature a round metal bezel, requiring a 32.5mm (1.28") diameter cut out, it is secured with the nut provided. Protection from the front to IP67 / NEMA 4X standards is achieved by fitting the rubber seal provided between the module and panel during assembly.

### EM32-1B

- 3½ digit LCD with 8mm digit height
- 200mV d.c. full scale reading
- 500µA @ 3.5 to 6.5V d.c. or 150µA @ 7.5 to 14V d.c. Operation



### EM32-1B-LED

- 3½ digit LED with 8mm digit height
- 200mV d.c. full scale reading
- 50mA @ 5V d.c. operation



LED

### EM32-4-LED

- 4 digit LED with 8mm digit height
- 20mA @ 5V d.c. Operation
- Drives up to 4 External LED's
- Connection via 2 rows of posts



LED

### EM32-1900 LCD NTC Thermometer

- 3 digit LED with 12.5mm digit height
- Range -40 to 105 °C
- 3 samples / sec
- Supply Voltage 4 to 28 V d.c.
- Supply Current 1- 10mA





A new series of digital panel meters combining a low profile with miniature "Component style" body. The SP series can provide splash-proof protection, when the supplied silicon seal is fitted. All these units have a 35x22mm bezel & a 34x21mm cut-out.

### SP100 (LED VOLTMETER, 12 PIN VERSION)

- 3½ digit LED voltmeter
- 9.4mm (0.37") digit height
- Auto-zero, auto polarity
- Programmable decimal points
- 200mV full scale reading
- Display blanking facility
- Compatible with other manufacturer's modules
- DIL connection
- Digital hold version **Sp101**

LED



### SP200 (LCD VOLTMETER, 12 PIN VERSION)

- 3½ digit LCD voltmeter
- 9.75mm (0.38") digit height
- Low battery warning
- Auto-zero, auto-polarity
- Programmable decimal points
- 200mV full scale reading
- LED backlighting
- Compatible with other manufacturer's modules
- DIL connection



### SP300 (LED VOLTMETER, 8 PIN VERSION)

- 3½ digit LED voltmeter
- 9.4mm (0.37") digit height
- Auto-zero, auto polarity
- Programmable decimal points
- 200mV full scale reading
- SIL connection

LED



### SP300 BLUE LED BACKLIGHTING



SP 300 - 8 Pins.

LED



### SP400 (LCD VOLTMETER, 9 PIN VERSION)

- 3½ digit LCD voltmeter
- 9.75mm (0.38") digit height
- Low battery warning
- Auto-zero, auto-polarity
- Programmable decimal points
- 200mV full scale reading
- LED backlighting
- SIL connection



### SP400-EB

- 3½ Digit LCD Voltmeter
- Enhanced Black LCD
- LED Backlighting
- 200mV Full Scale Reading
- 9 Pin SIL Connection
- 7 colour options



### SP400 BLUE LED BACKLIGHTING



## SP5 / SP8 SERIES



## DIGITAL PANEL METERS

The SP5 series consists of a 2-wire, signal powered voltmeter, 1V d.c. virtual analog voltmeter and a graphics display in a clip mount housing. This range of modules has a very low profile design. Once fitted, the face of the module sits almost flush with the panel. At the rear of the module, the mounting depth is also kept to a minimum, allowing use of the space behind the module. For harsher applications, the SP5 series is supplied with a rubber seal which, once fitted makes the modules splashproof from the front. Typical applications for this series include handheld Instrumentation and process equipment. All these units have a 48x36mm bezel & a 47x35mm cut-out.

### SP5-GFX1 (128 x 64 Pixel Graphics Display)

- 128 x 64 pixel LCD
- LED backlighting
- 6 o'clock viewing direction
- Serial data interface
- No calibration required
- Supplied with splashproof seal
- SIL 10-way connection



### SP8-100 (LED Voltmeter, 8 Pin version)

- 3½ digit LED voltmeter
- 14.2mm (0.56") digit height
- 200mV d.c. full scale reading
- 50mA @ +5V d.c. power supply
- Auto-zero and auto-polarity
- Programmable decimal points
- Bright red LED display





S - Normally Stock  
L - Limited Stock  
O - Ex Order

**LASCAR**

A series of digital panel meters with a one-piece, snap-in design, making installation a quick and easy procedure. Each meter has a large display in a miniature housing. All are backlit or use LED displays.

### DPM116 (3 ½ Digit LCD Voltmeter)

This compact panel meter features a 3½ digit LCD with 12.5mm (0.5") digit height and a low-profile bezel for mounting. 12-way SIL.



### DPM125 (3 ½ Digit LCD Voltmeter)

This compact panel meter features a 3½ digit LCD with 12.5mm (0.5") digit height and a low-profile bezel for mounting. Single-in-line SIL.



### DPM125-BL (3 ½ Digit LCD Voltmeter LED backlit)

This compact panel meter features a 3½ digit LCD with 12.5mm (0.5") digit height and a low-profile bezel for mounting. Single-in-line SIL.



### DPM160 (4 ½ Digit LCD Voltmeter)

This 200mV/2V voltmeter features a 4½ digit LCD with 12.5mm (0.5") digit height and a low-profile bezel for mounting.



### DPM160S (4 ½ Digit LCD Voltmeter Single Rail Version)

This 200mV/2V voltmeter features a 4½ digit LCD with 12.5mm (0.5") digit height and a low-profile bezel for mounting.



### DPM 1AS-BL (Compact 3 ½ Digit LCD Voltmeter)

This compact panel meter features a 3½ digit LCD with 5.5mm (0.22") digit height, one-piece snap-in housing and LED backlighting.



### DPM2000 (3 ½ Digit LCD Voltmeter)

Compact 200mV d.c. panel meter featuring a 3½ digit LCD with 15mm (0.6") digit height and a low-profile bezel for mounting.



### DPM2000S (3 ½ Digit LCD Voltmeter Single Rail Version)

Compact 200mV d.c. panel meter featuring a 3½ digit LCD with 15mm (0.6") digit height and a low-profile bezel for mounting.



### DPM 2AS-BL (Compact 3 ½ Digit LCD Voltmeter)

Compact 200mV d.c. panel meter featuring a 3½ digit LCD with 8.25mm (0.32") digit height, one piece snap-in housing and LED backlighting.



### DPM340 (Compact 3 ½ Digit LCD Voltmeter)

Compact 200mV d.c. panel meter featuring a 3½ digit LED with 8mm (0.31") digit height, one piece snap-in housing.



LED

### DPM342 (Compact 4-20mA Loop Powered LCD Meter)

Compact 4-20mA loop powered panel meter featuring a 3½ digit LCD with 11mm (0.43") digit height, LED backlighting and one-piece snap-in housing.



### DPM 3AS-BL (Compact 3 ½ Digit LCD Voltmeter)

Compact 200mV d.c. panel meter featuring a 3½ digit LCD with 11mm (0.43") digit height, one-piece snap-in housing and LED backlighting.



### DPM40 (200mV LED Voltmeter)

This panel meter features a 3½ digit LED display with 11mm (0.43") digit height.



LED

### DPM400 (3 ½ Digit LCD Voltmeter)

This compact panel meter features a 3½ digit LCD with 10mm (0.4") digit height, annunciators and a low-profile bezel for mounting.



### DPM500 (3 ½ Digit LCD Voltmeter)

This compact panel meter features a 3½ digit LCD with 12.5mm (0.5") digit height, annunciators and a low-profile bezel for mounting.



### DPM500S (3 ½ Digit LCD Voltmeter Single Rail)

This compact panel meter features a 3½ digit LCD with 12.5mm (0.5") digit height, annunciators and a low-profile bezel for mounting, Single Rail.





S - Normally Stock  
L - Limited Stock  
O - Ex Order

**LASCAR**

A series of digital panel meters with a one-piece, snap-in design, making installation a quick and easy procedure. Each meter has a large display in a miniature housing. All are backlit or use LED displays.

### DPM600 (200mV LCD Voltmeter with Annunciators)

This panel meter features a 3½ digit LCD with 12.5mm (0.5") digit height and annunciators.



### DPM600S (200mV LCD Voltmeter with Annunciators)

This Single rail panel meter features a 3½ digit LCD with 12.5mm (0.5") digit height and annunciators.



### DPM700 (200mV LCD Voltmeter with Annunciators)

This panel meter features a 3½ digit LCD with 12.5mm (0.5") digit height, annunciators and LED backlighting.



### DPM700S (Bezel Mounted LCD Voltmeter with LED Backlighting)

This panel meter features a 3½ digit LCD with 12.5mm (0.5") digit height, annunciators and LED backlighting.



### DPM702S (Dual 200mV Voltmeter with LED Backlighting)

This dual channel 3½ digit LCD panel meter features 6.4mm (0.25") digit height, 200mV d.c. full scale reading, auto-zero and auto-polarity.



### DPM742-BL (4-20mA Loop Powered LCD Meter with LED Backlighting)

4-20mA loop powered panel meter featuring a 3½ digit LCD with 12.7mm (0.5") digit height and LED backlighting.



### DPM750S-BL (200mV LCD Voltmeter with Backlighting)

This panel meter features a 3½ digit LCD with 12.7mm (0.5") digit height, annunciators and LED backlighting.



### DPM750S-EB-W (LCD Voltmeter with White Digits & Black Background)

### DPM942 (Large 4-20mA Loop Powered LCD Meter)

This large loop powered indicator features a 3½ digit LCD with 19mm (0.75") digit height.



### DPM942-BL (Large 4-20mA Loop Powered LCD Meter & LED Backlighting)

### DPM942-FPSI (Large 4-20mA Loop Powered LCD Meter with Red/Green Programmable Backlighting)

This large loop powered indicator features a 3½ digit LCD with 19mm (0.75") digit height and programmable LED backlighting.



### DPM950 (Large Voltmeter with LED Backlighting)

This large panel meter features a 3½ digit LCD with 19mm (0.75") digit height and LED backlighting.



### DPM950S (Large 200mV LCD Single Rail Voltmeter with LED Backlighting)

Compact 4-20mA loop powered panel meter featuring a 3½ digit LCD with 11mm (0.43") digit height, LED backlighting and one-piece snap-in housing.



### DP950S-EB (Large 200mV Single-rail Voltmeter with White Digits & Black Background)

This large panel meter features a 3½ digit LCD with 19mm (0.75") white on a black background.



### DPM950S-FPSI (Large 200mV LCD Voltmeter with Red/Green Programmable Backlighting)

This large panel meter features a 3½ digit LCD with 19mm (0.75") digit height and programmable LED backlighting.



### DPM959B (Large 200mV LED Voltmeter)

This large panel meter features a 3½ digit LED display with 19mm (0.75") digit height.

LED



### DPM970 (Large AC LCD Voltmeter with LED Backlighting)

This large panel meter features a 3½ digit LCD with 19mm (0.75") digit height and LED backlighting.





S - Normally Stock  
L - Limited Stock  
O - Ex Order

**LASCAR**

Designed as component style meters, the OEM series are ideally suited to both Medium & high volume applications. Typical uses for this series include personal instrumentation, integral sensor indicators and power supply monitoring. The range consists of two LCD meters, a bare PCB style meter & metal framed version and a potted LED meter. The LED meter is dimensionally compatible with the metal framed LCD version and has the same digit height.

### OEM 1B (Ultra Compact LCD Voltmeter)

This ultra-compact, low current consumption panel meter features a 3½ digit LCD voltmeter with 8mm (0.31") digit height.



### OEM 1B-LED (Ultra Compact LED Voltmeter)

This ultra-compact, low current consumption panel meter features a 3½ digit LED voltmeter with 8mm (0.31") digit height.



S - Normally Stock  
L - Limited Stock  
O - Ex Order

**LASCAR**

A series of digital panel meters intended for use in high volume applications. Each meter has good performance, is easy to use and offers value for money. The V 1, V 125 and V 600 modules are only available in packs of 10. All modules are supplied with bezels. An evaluation pack V EVAL, containing one of each meter and a demonstration unit is also available.

### V1 (Low Cost 200mV LCD Voltmeter)

- 3½ digit LCD voltmeter
- 6.3mm (0.25") digit height
- Auto-zero, auto-polarity
- User selectable decimal points
- 200mV full scale reading
- DIL connection



### V125 (Low Cost 200mV LCD Voltmeter)

- 3½ digit LCD voltmeter
- 12.5mm (0.5") digit height
- Auto-zero, auto-polarity
- User selectable decimal points
- 200mV full scale reading
- SIL connection



### V600 (Low Cost 200mV LCD Voltmeter)

- 3½ digit LCD voltmeter
- 15mm (0.6") digit height
- Auto-zero, auto-polarity
- User selectable decimal points
- 200mV full scale reading
- Compatible with industry-standard types
- SIL connection



### N480D



S - Normally Stock  
L - Limited Stock  
O - Ex Order

**NOVUS**

The N480D series of PID temperature controllers was designed for non-experienced novice users for combining extreme simplicity in operation with high performance only found in expensive high end controllers. It is a low-cost instrument which can be easily installed and operated. It accepts most thermocouples and Pt100 RTD, features a relay and pulse output for driving solid state relays and optionally can be supplied with a linear 4 to 20 mA output. Auto tuning PID function, dual display, full range universal power supply and ramps soak function are standard.

- Accepts thermocouples type J range -50 °C to 760 °C, type K range -90 °C to 1370 °C, type T range -100 °C to 400 °C, type R range 0 to 1760 °C, type S from 0 to 1760 °C, type E range -30 to 720 °C, type N range -90 to 1300 °C com with cold junction compensation.
- Accepts 2 or 3-wire Pt100 RTD, range -200 °C to 530 °C, with cable resistance compensation.
- Pt100 excitation current: 0.170 mA.
- Four-digit 10 mm red display for measured variable and four-digit 7 mm green display for set point.
- Sampling rate: 5 measurements per second.
- 5 Vdc 20 mA logic control output.
- 1 SPDT relay and 2 SPST 3A @ 250 Vac relays.
- Power: 100 to 240 Vac/dc, 50/60 Hz; optional 24 Vdc/ac.
- Power consumption: less than 9 VA.
- Operating environment: 0 to 55 °C, 20 to 95 % RH.
- Front panel: IP65, Polycarbonate UL94 V-2.
- Back panel: IP30, ABS+PC UL94 V-0.
- Dimensions: 48 x 48 x 110 mm (1.89" x 1.89" x 4.33").



USB Interface



Johannesburg Branch

**MIMIC COMPONENTS**

Cape Town Branch

Mimic Cape