



Key features

- ◆ 3 DIN case sizes
- ◆ Display colour options
- ◆ Inputs from 100mV

Bargraph meters

Meter types LE54D, LE90D, LE120D

This SIFAM range of solid state LED bargraph panel indicators is ideal where trend or percentage ratings are required in low light conditions. Such applications include process plant and vehicle control panels where vibration is present and stable readings required. All displays are assembled to customer requirements, enabling single or mixed colours to be used for either cosmetic purposes or to give an instant indication of a change in monitoring conditions. The printed dial gives the added advantage of an analogue meter presentation.

Features and benefits

- ◆ Choice of 3 DIN case sizes
- ◆ Stackable
- ◆ Solid state LED display with virtually instantaneous response
- ◆ Suitable for rugged and low light applications
- ◆ Standard red display with optional green and yellow which may be mixed

Displays

High intensity LED with optional dimming with external potentiometer. Red is standard, but green and yellow can be supplied as single or mixed colour. LE54D 54 segments in single column. LE90D 90 segments in single or dual column. LE120D up to 120 in a single arc with set point option.

Dials

Can be scaled to customer requirements

Case

Moulded in black. LE54D/LE90D has acrylic window. LE120D has glass window. LE54D and LE90D can be offered for vertical or horizontal use.

Tracking

± 1 segment.

Temperature coefficient

Better than 100ppm/°C

Power supply

Optional 12 or 24Vdc non isolated
LE120D also 115 or 230Vac

Temperature rating

Operating range 0°C to +50°C (+32°F to +122°F)
Storage range -40°C to +70°C (+40°F to +158°F)

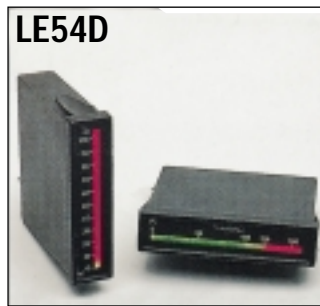
Certified drawings

Available on request.

Ordering information

Refer to full specification overleaf or to the Sales Office.

The SIFAM range of Bargraph meters



Typical specifications

| | |
|----------------------------|---|
| Front bezel | DIN 43700 96x24mm |
| Case material | Glass fibre reinforced "Noryl" |
| Number of segments | 54 in a single column horizontal or vertical |
| Resolution | 2% over normal range 0-100% 4% over range 100-112% |
| Accuracy | 2% FSD |
| Response time | Less than 50ms |
| Power supply | 12V or 24V non-isolated |
| Current consumption | 120mA maximum |
| Input signals (dc) | |
| | 0-100mV |
| | 0-1V 0-5V |
| | 1-5V 0-10V |
| | 2-10V 0-1mA |
| | 0-10mA 0-20mA |
| | 4-2mA 0-50mA |
| | Other ranges also available |
| Weight | 100g (3.5oz) |

| | |
|----------------------------|--|
| Front bezel | DIN 43700 144x48mm |
| Case material | Glass fibre reinforced "Noryl" |
| Number of segments | 90 in a single or dual column horizontal or vertical |
| Resolution | 1.1% |
| Accuracy | 1.1% FSD |
| Response time | Less than 50ms |
| Power supply | 12V or 24V non-isolated |
| Current consumption | 160mA maximum |
| Input signals (dc) | |
| | 0-100mV |
| | 0-1V 0-1mA |
| | 0-5V 0-10mA |
| | 1-5V 0-20mA |
| | 0-10V 4-20mA |
| | 2-10V 0-50mA |
| | Other ranges and centre zero option also available |
| Weight | 250g (8.8oz) |

| | |
|----------------------------|---|
| Front bezel | DIN 43700 96x96mm |
| Case material | ABS |
| Number of segments | 101 in a single 300° arc or 120 in a 360° arc |
| Resolution | 0.83% |
| Accuracy | 0.83% FSD |
| Response time | Less than 300ms |
| Power supply | 12V or 24Vdc non-isolated 115V or 230Vac @5VA |
| Current consumption | 200mA maximum |
| Input signals (dc) | |
| | 0-100mV |
| | 0-1V 0-1mA |
| | 0-5V 0-10mA |
| | 1-5V 0-20mA |
| | 0-10V 4-20mA |
| | 2-10V 0-50mA |
| | Other ranges also available. Over range LED indication |
| Weight | 350g (12.3oz) dc version 500g (17.6oz) ac version |

Two adjustable set point option
Adjusted by screwdriver slot potentiometers
Indication by illuminated bar graph segment
Double pole relay outputs 0-5A @ 125Vac/1A @ 30Vdc

Analogue output option - isolated
4 – 20mA

Order codes

| Code | Number of columns | Mounting position |
|----------|-------------------|-------------------|
| LE54DH | 1 | Horizontal |
| LE54DV | 1 | Vertical |
| LE90D-1H | 1 | Horizontal |
| LE90D-1V | 1 | Vertical |
| LE90D-2H | 2 | Horizontal |
| LE90D-2V | 2 | Vertical |
| LE120D | 1 | Not Applicable |

In addition please specify

- ◆ Input signal
- ◆ Power supply
- ◆ LED colour
- ◆ Dial printing

Additional options

- ◆ Brightness of display can be dimmed by wiring an external potentiometer
- ◆ On LE54D and LE90D scale numerals and captions can be illuminated by means of internally mounted LEDs. Separate power supply required.
- ◆ LE120D can be fitted with dual adjustable set points with double pole relay outputs. Contact rating: 0.5A @ 125Vac 1A @ 30Vdc
Set point adjustment by means of front mounted screw driver slot potentiometers.
Set point indication by illuminated segment.
Set point status indicated by LED.
- ◆ LE120D can also be fitted with isolated 4-20mA analogue output.



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As part of our policy of continuous product improvement we reserve the right to change specifications at any time.