Bar graph displays

- For process control, automation, and laboratory applications
- Current, voltage, resistance, frequency and temperature
- Up to 0.5% resolution
**DINALOG A 96 x 24**

Programmable quasi-analogue bar graph meters

Single channel meters with a LED light bar and additional digital display.

For DC and AC current and voltage, temperature and resistance measuring ranges. Models with two limits are available.

The limits are displayed simultaneously with the measured value on the light bar.

If a limit is exceeded, this is signalled via relay contacts on the rear side and by an LED on the scale.

### All measured values at a glance
- Precise values due to additional digital display
- High-contrast LED displays
- High legibility, wide viewing angle
- Measurement circuit galvanically isolated from the power supply
- Front dimensions: 96 x 24 mm
- Front protection to IP65
- Small installation depth of less than 127 mm
- Quick installation due to slider mount for all control panel thicknesses
- Pre-wiring is possible due to plug in screw terminal blocks

These measuring instruments are suitable for all applications in which several measured values must be monitored simultaneously.

### Regulations and standards

Our bar graph displays comply with the regulations defined by the European Directives 73/23/EEC and 89/336/EEC, as verified by compliance with the following standards:

- DIN/IEC 61 554 (housing)
- IEC/EN 61 326-1/+A1 (interference resistance)
- IEC/EN 61 326-1/+A1 (emitted interference)
- EN 60 529 (protection class)

Due to high legibility, you have a good overview of important measured values at a glance, even in unfavourable light conditions.

Each meter can be configured to suit the respective measurement application, by means of various measurement modules.

With their high-contrast LED display, these meters are a good alternative to conventional analogue displays, or liquid crystal bar graph displays.

The LED light bar with 35 segments shows you the measured value with a resolution of 3%, on a scale which is 45 mm in length. By means of the additional polarity indicator, you can also use the full display range for bipolar measurement.

Simple programming with the three buttons enables you to adjust the display range on site.

### Technical characteristics – DINALOG A 96 x 24

<table>
<thead>
<tr>
<th>Display</th>
<th>AC voltage</th>
<th>0...0.2 V to 0...300 V and 700 V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>AC current</td>
<td>0...2 mA to 0...200 mA and 0...1 A; 0...5 A</td>
</tr>
<tr>
<td>Light colour</td>
<td>Temperature</td>
<td>Via Pt100 or thermocouples, types: J, K, R or S</td>
</tr>
<tr>
<td>Analogue</td>
<td>Resistance</td>
<td>0...200 Ω to 0...20 kΩ</td>
</tr>
<tr>
<td>Digital</td>
<td>Supply voltages</td>
<td>230 V/115 V AC / 90...260 V DC or 24 V AC / 18...36 V DC</td>
</tr>
<tr>
<td>Digit height</td>
<td>Outputs for limit monitors</td>
<td>2 relays Each with change-over contact</td>
</tr>
<tr>
<td>Scale</td>
<td>2 additional relays</td>
<td>Each with NO contact</td>
</tr>
<tr>
<td>Format</td>
<td>Switching capacity</td>
<td>5 A/250 V AC, 5 A/30 V DC</td>
</tr>
<tr>
<td>Scale length</td>
<td>Switching time</td>
<td>Max. 200 ms</td>
</tr>
<tr>
<td>Scale colour</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- LED
- Red or green
- 3-character 7-segment display with polarity indicator
- Approximately 8 mm
- 96 x 24 mm, vertical or horizontal (horizontal format without digital display)
- 45 mm
- White or black
- 0...2 V to 0...300 V and ±2 V to ±300 V
- 0...4...20 mA
- 0...0.2 mA to 0...200 mA and ± 0.2 mA to ±200 mA
Bar graph displays serve to display measurement signals visually. It is generally possible to connect sensors directly, or via measuring transducers. Depending on the visual resolution of the values to be displayed, bar graph displays are subdivided into trend indicators, overview indicators, and measuring instruments.

### Technical characteristics – DINALOG A 144 x 24

<table>
<thead>
<tr>
<th>Display</th>
<th>AC voltage</th>
<th>AC current</th>
<th>Temperature</th>
<th>Resistance</th>
<th>Supply voltages</th>
<th>Outputs for limit monitors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>0…0.2 V to 0…200 V and 600 V</td>
<td>0…2 mA to 0…200 mA and 0…1 A; 0…5 A</td>
<td>Via Pt 100 or thermocouples, type: J or K</td>
<td>0…200 Ω to 0…10 kΩ</td>
<td>85…265 V AC/ 95…370 V DC or 15…48 V AC/10…72 V DC</td>
<td>2 relays Each with change-over contact</td>
</tr>
<tr>
<td>Light colour</td>
<td>Red or green</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 additional relays Each with NO contact</td>
</tr>
<tr>
<td>Analogue</td>
<td>101 segments</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Switching capacity 5 A/250 V AC, 5 A/30 V DC</td>
</tr>
<tr>
<td>Digital</td>
<td>4-character LED display with polarity indicator</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Switching time Max. 200 ms</td>
</tr>
<tr>
<td>Digit height</td>
<td>Approximately 7 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scale</td>
<td>144 x 24 mm, vertical or horizontal (horizontal format without digital display)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Format</td>
<td>144 x 24 mm, vertical or horizontal (horizontal format without digital display)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scale length</td>
<td>91 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scale colour</td>
<td>White or black</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Measuring ranges</td>
<td>DC voltage</td>
<td>DC current</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DC voltage</td>
<td>0…0.1 V to 0…200 V and ± 0.1 V to ± 200 V</td>
<td>0…4…20 mA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DC current</td>
<td>0…4…20 mA with 24 V DC supply for measuring transducer</td>
<td>0…2 mA to 0…5 A and ± 2 mA to ± 5 mA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Darlogging A 144 x 36
Programmable quasi-analogue bar graph meters

**Single display**
The measured value is displayed on a light bar, and simultaneously on the digital display.
For models which have limit settings, you can read the defined limits clearly on a second light bar alongside the measured value.
Therefore, you have a clear overview of the difference between the measured value and the limit values.

**Double display**
The measured values are displayed on two light bars side by side. You can select one measured value to be displayed simultaneously on the digital display.
A LED at the beginning of the respective light bar scale, shows you which measured value is being displayed by the digital display.
- 71 segments
- With a scale length of 91 mm, the measured value is displayed with a precision which is better than class 1.5.

**Alarm messages:**
Additional LEDs on the scale indicate when limits are exceeded.
The small installation depth of less than 127 mm enables installation into practically any control cabinet.
- Front dimensions: 144 x 36 mm to DIN 43718

Bar graph displays serve to display measurement signals visually.
It is generally possible to connect sensors directly, or via measuring transducers.
Depending on the visual resolution of the values to be displayed, bar graph displays are subdivided into trend indicators, overview indicators, and measuring instruments.

**Regulations and standards**
Our bar graph displays comply with the regulations defined by the European Directives 73/23/EEC and 89/336/EEC, as verified by compliance with the following standards:
- DIN/IEC 61 554 (housing)
- IEC/EN 61 326-1/+A1 (interference resistance)
- IEC/EN 61 326-1/+A1 (emitted interference)
- EN 60 529 (protection class)

### Technical characteristics – DINALOG A 144 x 36

<table>
<thead>
<tr>
<th>Display</th>
<th>AC voltage</th>
<th>0...0.2 V to 0...300 V and 700 V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>AC current</td>
<td>0...2 mA to 0...200 mA and 0...1 A; 0...5 A</td>
</tr>
<tr>
<td>Light colour</td>
<td>Temperature</td>
<td>Via Pt100 or via thermocouples, types: J, K, R or S</td>
</tr>
<tr>
<td>Analogue</td>
<td>Resistance</td>
<td>0...200 Ω to 0...20 kΩ</td>
</tr>
<tr>
<td>Digital</td>
<td>Supply voltages</td>
<td>230 V/115 V AC/90...260 V DC or 24 V AC/18...36 V DC</td>
</tr>
<tr>
<td>Digit height</td>
<td>Outputs for limit monitors</td>
<td>2 relays Each with change-over contact</td>
</tr>
<tr>
<td>Scale</td>
<td>Measuring ranges</td>
<td>2 additional relays Each with NO contact</td>
</tr>
<tr>
<td>Format</td>
<td>DC voltage</td>
<td>0...2 V to 0...300 V and ± 2 V to ± 300 V</td>
</tr>
<tr>
<td>Scale length</td>
<td>DC current</td>
<td>0...4...20 mA</td>
</tr>
<tr>
<td>Scale colour</td>
<td>Switching capacity</td>
<td>0...0.2 mA to 0...200 mA and ± 0.2 mA to ± 200 mA</td>
</tr>
<tr>
<td>Measuring ranges</td>
<td>Switching time</td>
<td>5 A/30 V DC</td>
</tr>
<tr>
<td>DC voltage</td>
<td></td>
<td>Max. 200 ms</td>
</tr>
<tr>
<td>DC current</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
LS 200
Quasi-analogue bar graph meters
144 x 48 mm

All measured values at a glance
- Electronic panel-mounted measuring instrument with gas discharge display
- 201 distinguishable segments
- Single display without limit values, or with two limit values
- Double display without limit values, or with two limit values
- Two limit values can be set and displayed
- Front panel controls to set limit values
- Measuring range adjustment possible
- Display of limit values with pointers on the scale
- An exceeded limit is displayed by means of an LED on the scale
- Highly suitable for control rooms and process control systems which require high resolution and precise read-outs of measured values
- Installable in any location, vibration-resistant
- Front dimensions: 144 x 48 mm to DIN 43718
- Installation depth: 163 mm

Technical characteristics – LS 200 bar graph displays

<table>
<thead>
<tr>
<th>Analogue bar graph display</th>
<th>Supply voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>24 V AC</td>
</tr>
<tr>
<td>Light colour</td>
<td>115/230 V AC</td>
</tr>
<tr>
<td>Over range display</td>
<td>24 V DC</td>
</tr>
<tr>
<td>Resolution</td>
<td>4</td>
</tr>
<tr>
<td>0.5%</td>
<td>Potentiometers</td>
</tr>
<tr>
<td></td>
<td>Pointers</td>
</tr>
<tr>
<td></td>
<td>LED</td>
</tr>
<tr>
<td>Scale Format</td>
<td>4 relays</td>
</tr>
<tr>
<td>144 x 48 mm, vertical or horizontal</td>
<td>Approximately 0.5 %</td>
</tr>
<tr>
<td>Scale length</td>
<td></td>
</tr>
<tr>
<td>100 mm</td>
<td></td>
</tr>
<tr>
<td>Scale colour</td>
<td></td>
</tr>
<tr>
<td>Black or white</td>
<td></td>
</tr>
<tr>
<td>Measuring ranges</td>
<td></td>
</tr>
<tr>
<td>DC voltage</td>
<td></td>
</tr>
<tr>
<td>DC current</td>
<td></td>
</tr>
<tr>
<td>AC voltage</td>
<td></td>
</tr>
<tr>
<td>AC current</td>
<td></td>
</tr>
<tr>
<td>Temperature</td>
<td></td>
</tr>
<tr>
<td>Resistance</td>
<td></td>
</tr>
<tr>
<td>Frequency</td>
<td></td>
</tr>
</tbody>
</table>

See measuring range card, page 9

Serie LS200 no longer available
Replacements: Serie LS300, alternatively DINALOG A 1400

Regulations and standards
Our bar graph displays comply with the regulations defined by the European Directives 73/23/EEC and 89/336/EEC, as verified by compliance with the following standards:
DIN/IEC 61 554 (housing)
IEC/EN 61 326-1/+A1 (interference resistance)
IEC/EN 61 326-1/+A1 (emitted interference)
EN 60 529 (protection class)
LS 300
Quasi-analogue bar graph meters
144 x 36 mm

All measured values at a glance
- 300 series bar graph displays in the are robust, quasi-analogue display devices with one or two light bars
- 101 segments per light bar
- In addition, depending on the type, limit relays can be included
- The zero point and full-scale value of the light bars are independent of each other and can be adjusted separately
- Buttons on the front side enable segment tests and brightness adjustment
- 2 limit values can be set on the front side and displayed
- Limit breaches are signalled
- Serial interface
- Installable in any location, vibration-resistant
- Front dimensions: 144 x 36 mm to DIN 43718
- Installation depth: 186 mm

Regulations and standards
Our bar graph displays comply with the regulations defined by the European Directives 73/23/EEC and 89/336/EEC, as verified by compliance with the following standards:
DIN/IEC 61 554 (housing)
IEC/EN 61 326-1/+A1 (interference resistance)
IEC/EN 61 326-1/+A1 (emitted interference)
EN 60 529 (protection class)

Technical characteristics – LS 300 bar graph displays

<table>
<thead>
<tr>
<th>Analogue bar graph display</th>
<th>Supply voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>24 V AC</td>
</tr>
<tr>
<td>Light colour</td>
<td>115/230 V AC</td>
</tr>
<tr>
<td>Over range display</td>
<td>24 V DC</td>
</tr>
<tr>
<td>Resolution</td>
<td>48 V DC</td>
</tr>
<tr>
<td>Scale</td>
<td></td>
</tr>
<tr>
<td>Format</td>
<td></td>
</tr>
<tr>
<td>Dot display or flashing display</td>
<td></td>
</tr>
<tr>
<td>Scale length</td>
<td></td>
</tr>
<tr>
<td>100 mm</td>
<td></td>
</tr>
<tr>
<td>Scale colour</td>
<td></td>
</tr>
<tr>
<td>Black or white</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Measuring ranges</th>
<th>Limit values</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC voltage</td>
<td>Number 2</td>
</tr>
<tr>
<td>DC current</td>
<td>Potentiometers</td>
</tr>
<tr>
<td>AC voltage</td>
<td>LED bar or LED dot</td>
</tr>
<tr>
<td>AC current</td>
<td>LED</td>
</tr>
<tr>
<td>Temperature</td>
<td>Outputs 2 relays</td>
</tr>
<tr>
<td>Resistance</td>
<td>Hysteresis</td>
</tr>
<tr>
<td>Frequency</td>
<td>Approximately 1.0 %</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Versions</th>
<th>Analogue output</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 measurement input, no limit value</td>
<td>Optional 0...10 V or 0/4...20 mA</td>
</tr>
<tr>
<td>1 measurement input, 2 limit values</td>
<td></td>
</tr>
<tr>
<td>2 measurement inputs, no limit value</td>
<td></td>
</tr>
</tbody>
</table>

See measuring range card, page 9
Bar graph displays serve to display measurement signals visually. It is generally possible to connect sensors directly, or via measuring transducers. Depending on the visual resolution of the values to be displayed, bar graph displays are subdivided into trend indicators, overview indicators, and measuring instruments.

### LS 40
Quasi-analogue bar graph meters
96 x 24 mm

#### All measured values at a glance
- Electronic panel-mounted measuring instrument with LED light bar
- 41 individual LEDs
- Measuring range adjustable via DIP switches
- ± 25% range adjustment for all measuring ranges
- LED colours freely selectable
- Dot or bar display selectable
- Brightness setting via adjustable voltage
- Over range display via flashing LEDs
- Horizontal or vertical installation possible
- Installable in any location, vibration-resistant
- Front dimensions: 96 x 24 mm to DIN 43718
- Installation depth: 84 mm

#### Regulations and standards
Our bar graph displays comply with the regulations defined by the European Directives 73/23/EEC and 89/336/EEC, as verified by compliance with the following standards:
- DIN/IEC 61 554 (housing)
- IEC/EN 61 326-1/+A1 (interference resistance)
- IEC/EN 61 326-1/+A1 (emitted interference)
- EN 60 529 (protection class)

### Technical characteristics – LS 40 bar graph displays

<table>
<thead>
<tr>
<th>Analogue bar graph display</th>
<th>Supply voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>5 V DC, not galvanically isolated</td>
</tr>
<tr>
<td>Light colour</td>
<td>24 V DC</td>
</tr>
<tr>
<td>41 bar LEDs (2x5 mm)</td>
<td>Red (other colours available on request)</td>
</tr>
<tr>
<td>Over range display</td>
<td>Flashing</td>
</tr>
<tr>
<td>Resolution</td>
<td>2.5%</td>
</tr>
<tr>
<td>Scale format</td>
<td>96 x 24 mm, vertical or horizontal</td>
</tr>
<tr>
<td>Scale length</td>
<td>Approximately 80 mm</td>
</tr>
<tr>
<td>Scale colour</td>
<td>Black or white</td>
</tr>
<tr>
<td>Measuring ranges</td>
<td>Max. 250 mA with bar display, max. 50 mA with dot display</td>
</tr>
<tr>
<td>DC voltage</td>
<td>91 x 22.5 ± 2 mm</td>
</tr>
<tr>
<td>0...150 mV to 0...200 V DC</td>
<td>Housing</td>
</tr>
<tr>
<td>Input resistance</td>
<td>Closed, black thermoplastic</td>
</tr>
<tr>
<td>50 kΩ/V</td>
<td>Scale faceplate</td>
</tr>
<tr>
<td>DC current</td>
<td>Black plastic</td>
</tr>
<tr>
<td>0...20 mA, 4...20 mA DC</td>
<td>Voltage drop via shunt: 200 mV</td>
</tr>
</tbody>
</table>

#### Bar graph displays
- Electronic panel-mounted measuring instrument with LED light bar
- 41 individual LEDs
- Measuring range adjustable via DIP switches
- ± 25% range adjustment for all measuring ranges
- LED colours freely selectable
- Dot or bar display selectable
- Brightness setting via adjustable voltage
- Over range display via flashing LEDs
- Horizontal or vertical installation possible
- Installable in any location, vibration-resistant
- Front dimensions: 96 x 24 mm to DIN 43718
- Installation depth: 84 mm

#### Measuring ranges
- DC voltage: 0...150 mV to 0...200 V DC
- Input resistance: 50 kΩ/V
- DC current: 0...20 mA, 4...20 mA DC

#### Installation dimensions
91 x 22.5 ± 2 mm

#### Housing
- Closed, black thermoplastic

#### Scale faceplate
- Black plastic
LK 75
Quasi-analogue bar graph meters
75 x 38 mm

Bar graph displays serve to display measurement signals visually. It is generally possible to connect sensors directly, or via measuring transducers. Depending on the visual resolution of the values to be displayed, bar graph displays are subdivided into trend indicators, overview indicators, and measuring instruments.

All measured values at a glance
• Electronic panel-mounted measuring instrument with LED line
• 21 individual LEDs
• LED colours freely selectable
• Dot or bar display selectable
• Brightness setting via adjustable voltage
• Over range display via flashing LEDs
• Horizontal or vertical installation possible
• Installable in any location, vibration-resistant
• Front dimensions: 75 x 38 mm
• Installation depth: 43 mm

Regulations and standards
Our bar graph displays comply with the regulations defined by the European Directives 73/23/EEC and 89/336/EEC, as verified by compliance with the following standards:
DIN/IEC 61 554 (housing)
IEC/EN 61 326-1/+A1 (interference resistance)
IEC/EN 61 326-1/+A1 (emitted interference)
EN 60 529 (protection class)

Technical characteristics – LK 75 bar graph displays

<table>
<thead>
<tr>
<th>Display</th>
<th></th>
<th>Supply voltage 5 V DC, not galvanically isolated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>21 round LEDs (2.5 mm diameter)</td>
<td>Working temperature 0 to 50 °C</td>
</tr>
<tr>
<td>Light colour</td>
<td>Red (other colours available on request)</td>
<td>Storage temperature –20 to +70 °C</td>
</tr>
<tr>
<td>Over range display</td>
<td>Flashing</td>
<td>Current consumption Max. 250 mA with bar display</td>
</tr>
<tr>
<td>Resolution</td>
<td>5%</td>
<td>Max. 50 mA with dot display</td>
</tr>
<tr>
<td>Scale</td>
<td></td>
<td>Housing Closed, black thermoplastic</td>
</tr>
<tr>
<td>Format</td>
<td>75 x 38 mm, vertical or horizontal</td>
<td>Scale faceplate Black plastic</td>
</tr>
<tr>
<td>Scale length</td>
<td>Approximately 51 mm</td>
<td></td>
</tr>
</tbody>
</table>
## MEASURING RANGE CARDS for LS 200 and LS 300

### DC voltage
- **Measuring range:** 0...10 mV to 0...250 V
- **Overvoltage:** 350 V max.
- **Range suppression:** Up to 50% of the full-scale value

### DC current
- **Measuring range:** 0...20 µA to 0...200 mA
- **Overload:** 0.5 W max.
- **Range suppression:** Up to 50% of the full-scale value

### AC voltage (Sinusoidal)
- **Measuring range:** 0...60 mV to 0...250 V
- **Overvoltage:** 350 V max.
- **Frequency range:** 10 Hz...35 Hz...2 kHz...4 kHz

### AC current (Sinusoidal)
- **Measuring range:** 0...10 µA to 0...1 A
- **Overload:** 0.5 W max.
- **Voltage drop:** 60 mV approx.
- **Frequency range:** 10 Hz...35 Hz...2 kHz...4 kHz

### True RMS AC voltage
- **Measuring range:** 0...60 mV to 0...250 V
- **Overvoltage:** 350 V max.
- **Frequency range:** DC, 15 Hz...10 kHz

### True RMS AC current
- **Measuring range:** 0...2 mA to 0...2 A
- **Overload:** 0.5 W max.
- **Voltage drop:** 60 mV approx.
- **Frequency range:** DC, 15 Hz...10 kHz

### Frequency measurement
- **Measuring range:** 20 Hz...2 kHz
- **Maximum input:** Input voltage range up to 25 V: 100 V
  Input voltage range up to 250 V: 350 V

### Temperature with thermocouple
- **Measuring range:**
  - NiCr-Ni (K): 0...1200 °C
  - Fe-CuNi (J or L): 0...900 °C
  - Cu-Cu-Ni (T or U): 0...600 °C
  - PtRh-Pt 10% (S): 400...1700 °C
  - PtRh-Pt 13% (R): 500...1700 °C

### Temperature resistance thermometer Pt 100
- **Measuring range:** –200 °C...850 °C

### Resistor or potentiometer
- **Measuring range:** 20 Ω...20 kΩ

### Order information (example)
- **Model, scale:** LS 224, vertical scale, black
- **Measurement input 1:** 0...100 V, bar display 0...100% 2 max. contacts, fail safe
- **Measurement input 2:** 0...20 mA, dot display 0...4 bar 1 min. / 1 max. contact, inverse
- **Auxiliary voltage:** 24 V DC
- **Analogue output 1:** 0...20 mA
- **Analogue output 2:** 0...10 V

### Certificates
- DIN EN ISO 9001:2000 certificate
- GOST certificate
- Intercert certificate
PRODUCT OVERVIEW

Copy, mark product boxes of interest and fax back
Fax no. +49 (0)911/3502-307

Product group Analogue display units
- Complete measuring instrument family for current, voltage, power, power factor, frequency, bimetal ammeters
- Housing as per DIN, square/rectangular shape
- Changeable scales
- Subassembly and panel-mounted devices

Product group Measuring transducers
- For all heavy current values and process values
- In accordance with DIN EN 60688
- Programmable, up to 4 outputs
- Class 0.5
- Compact design 22.5/100 mm
- Screw terminals, or DIN standard snap fastening

Product group Digital measuring instruments
- Current, voltage, temperature and process control
- LED and LCD displays
- 2,000 to 4,000 digits
- DIN panel-mounted devices
- 39 different device types

Product group Appliance testers
- In accordance with VDE 0701/0702
- Panel-mounted and portable
- Analogue or digital display
- Protective conductor resistance Insulation
- Substitute leakage current measurement/differential current
Product group: Contact devices
- For all electrical values
- Pt 100 and thermocouples
- 1 or 2 limit values
- Quiescent or operating current switching
- 7 housing sizes

Product group: Text displays/printers
- 4 different versions
- 1 and 2 lines
- 16/80 characters
- Protocol panel printers
- Paper re-roll mechanism

Product group: Bar graph displays
- Analogue and digital display
- 1 or 2 measurement channels
- Fluorescent display or LEDs
- Up to 4 adjustable limit values
- Bar or point display
- Panel-mounted DIN size housings

Product group: Probes
- Differential probes up to 1.5 kV
- Passive probes up to 450 MHz
- SMT probes and measuring accessories
- Modular probes
- High voltage probes up to 40 kV
- HF probes and demodulator probes

Product group: Accessories
- Current transducers, class 0.5 up to 2000 A
- Shunts to DIN 43703
- Measuring instrument selector switches
- Switch position indicators
- Power adapters
INTERNET
You are very welcome to visit our website

You can find data sheets and user manuals for the products in this catalogue under Bar Graph Displays on our website.

You can send us an enquiry message under Agencies.

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