Electronic Panel Meters DIGEM - Preference Program

- Process control, automation & laboratory uses
- Class 0.01 to 1
- Current, Voltage, Frequency, Temperature, RPM, Pressure, etc.
- LED/LCD displays
- Display 1999 to 99999 digits (31/2 to 5 digits)
- DIN 43700 panel mounting cases





Electronic Panel Meters

Process control, automation & laboratory uses

This catalogue gives you an overview of our preference program. You have a selection from a complete program of electronic panel meters.

The modern product palette is carefully selected on the requirements of measurement and display technologies, systems design and assembly technologies.

GOSSEN Müller & Weigert panel meters fulfil all requirements of the European EMC guidelines without any restrictions.

You receive invariable high quality products that are constantly controlled by a strict quality control system.

Type A1125 A1375 A1275 A1215 Mechanical Data* Page 4 5 6 7 Front panel dimensions / mm 48 x 24 96 x 22 92 x 22.2					
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Panel cutout / mm	Mechanical Data* Page	4	5	6	7
Installation depth / mm	Front panel dimensions / mm	48 x 24	96 x 24	96 x 24	96 x 24
Display (7 Segments) red / green red / green<	Panel cutout / mm	45 x 22.5	92 x 22.2	92 x 22.2	92 x 22.2
Display colour	Installation depth / mm	93	126	141	72
Character heigh / mm	Display (7 Segments)				
- 1.999 1.999 (31/z digits)	Display colour	red / green	red	red / green	red / green
- 1.999 9.999 (4 digits) - 19.999 19	Character heigh / mm	8	14	14	14
- 19.99919.999 (4³/2 digits)	- 1.9991.999 (3 ¹ / ₂ digits)	•	4		
- 19.99932.765 (4³/4 digits) - 19.99999.999 (5 digits) Display range programmable Decimal point programmable Inputs Measurement range card Amount of measurement ranges 1 1 1 1 max. 4 Selection with Jumpe Programmable Measuring Functions DC voltage / DC current -///- 0 20 mA / 4 20 mA AC voltage / RMS voltage TRMS voltage / RMS voltage -//- TRMS voltage / RMS voltage Thermocouple / P1100 RPM Pressure Outputs Analog output Comparator Limit values (Relay) BCD 5 V / 24 V (isolated) Interface RS232 / RS485 Transducer power supply (only for 4 20 mA) Power Supply OC 5 V isolated / not isolated DC 24 V / 18 36 V Miscallaneous functions Blanking control Segment test • • • • • • • • • • • • • • • • • • •	- 1.999 9.999 (4 digits)		•		
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^{*}Compulsory dimensional drawing on request

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Subject to change without notice

DIGEM 48 x 24 AK5

Digital Indicators for Grid and Mosaic Applications Type A1125

- Display range ± 1 999 digits,
 Optionally ± 19 990 digits
- Bright LED-Display with 8 mm character height
- Single standard mounting elements for all grid types
- Suitable for installation into all known grid configurations
- Extremely easy installation
- Power supply electronically separated from measurement circuit, 500 V test voltage

The DIGEM 48×24 AK5 panel meter is a $3^{1}/2$ digits display whose casing was especially developed for grid applications.

The included mounting elements allow for installation into all known 24 mm grid systems.

The instrument has a display range of \pm 1 999 digits, which can optionally be extended to \pm 19 990 digits by setting an additional digit hardwired to zero.

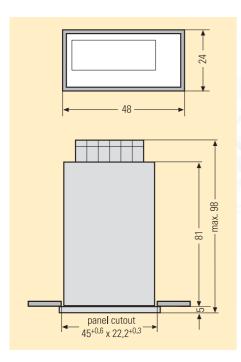
Decimal points are permanently set in the instrument, by means of solder bridges at the display, in accordance with the entries on the serial plate. With measurements of 48 mm x 24 mm, this instrument can be fitted into practically any grid.

Installation in a control desk is possible because of the shallow installation depth of less than 100 mm.

With the use of coded jumpers and a potentiometer, it is possible to adjust the display range of the instrument.

The same method can be used to set the starting point of the measuring range.

This model is especially suited for display originating from measurement transducers.





Characteristic Values, DIGEM 48 x 24 AK5

Display

Type 7 Segment LED
Display Colour red, optionally green
Character Height approx. 8 mm
Display Range - 1 999 ... 1 999

option: ± 19 990

Polarity "—" is displayed automatically

Decimal Point fixed
Overflow Display "1..."

Measuring Ranges

Offset Drift

Warm-up Time

Direct Voltage \pm 200 mV to \pm 50 V
Direct Current \pm 200 μ A to \pm 200 mA

Error Limits \pm (0,05 % + 2 digits)
[with option: \pm 19 990 \pm (0,05 % + 20 digits)]

Error Limits < 100 ppm / °C

< 0,2 digits / °C

approx. 1 min.

Power Supply

18 ... 36 V DC 24 V AC 50 / 60 Hz

A-D Conversion

Conversion Method Integration Time Measurements / second, typical dual slope approx. 100 ms 3: Response time for the overall instrument is greater depending upon the filter at the measuring input. It amounts to approx. 1 second.

Ambient Conditions

 $\begin{array}{lll} \text{Operating Temperature} & 0 \dots + 50 \text{ °C} \\ \text{Storange Temperature} & -20 \dots + 70 \text{ °C} \\ \text{Relative Humidity} & \text{max. 85 \%} \\ \text{Contamination Level} & 2 \\ \text{Surge Voltage Category} & \text{III} \\ \end{array}$

Casting

Protection front panel: IP 50
rear panel: IP 20
Bezel black matt; optionally
grey, pebble grey or
light grey
Installation Depth max. 98 mm
(without connector)

Weight 0.11 kg

Terminals screw terminal blocks

The modular DIGEM 96 x 24 B5 digital indicator is a high precision panel meter with a programmable display range.

The instrument can be used for multiple measuring tasks, depending upon the installed measuring module. These tasks include:

- Direct voltage
- Direct current
- Alternating voltage
- Alternating current
- Temperature

The display range and decimal point can easily be adjusted for the respective measuring tasks.

It is also possible to make subsequent adjustments on site.

The measured values are processed by a microcomputer and displayed on a 7-segment display unit.

The lower and upper display range values can be adjusted with the keys on the front of the panel.

The selected parameters can be protected from unauthorised adjustments through an external contact on the back of the instrument.

Each instrument is equipped with a control input which allows for the storage of display values to memory, and which freezes the current display. The measuring cycle is not influenced by this function.

In the case of the non-programmable variant, the settings are preset at manufacturing time. It is thus only possible to make subsequent changes at the factory.

The unit of measure for the measured quantity is indicated with a small tab that is inserted into a pocket behind the faceplate.

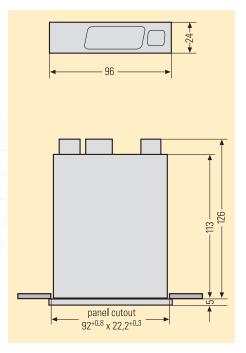
This can be inserted after installation.

DIGEM 96 x 24 B5

4 Place Digital Indicator Type A1375

- Front panel dimensions 96 x 24 mm
- Display range 1 999 ... 9 999
- Optimally adaptable to respective measuring tasks through measuring modules
- Programmable, configuration extremely easy
- Power supply electronically isolated from measuring circuits
- Also available with auxiliary power for 2-wire measuring transducers
- Quick installation with mounting tab
- Also available as non-programmable instrument





Characteristic Values, DIGEM 96 x 24 B5

Display

Type 7 Segment LED Display Colour red Character Height 14 mm

Display Range -1 999 ... 9 999

"-" is displayed automatically **Polarity** programmable or fixed **Decimal Point** Overflow Display blinking - top dash

Measuring Ranges

Direct Voltage \pm 60 mV to \pm 300 V **Direct Current** \pm 2 mA to \pm 200 mA

0 ... 20 mA

4 ... 20 mA with power supply for 2-wire transducer Alternating Voltage 0 ... 700 V

Alternating Current 0 ... 200 mA, 0 ... 1 A / 5 A

TRMS Voltage 0 ... 700 V

TRMS Current 0 ... 200 mA, 0 ... 1 A / 5 A Crest Factor 6 (additional 0,5 % of

reading)

Temperature Pt100

- 200 ... + 800 °C

Power Supply

90 ... 230 V AC 50 / 60 Hz and 90 ... 260 V DC

24 V AC 50 / 60 Hz and 18 ... 36 V DC

Ambient Conditions

Operating Temperature 0 ... + 50°C Storage Temperature - 20 ... + 70°C 2 Contamination Level Overvoltage Category Ш

Casing

front panel: IP 54 Protection rear panel: IP 20

Front Panel frame color black Weight 0.21 kg

Installation quick mounting tabs

Terminals screw terminal blocks

DIGEM 96 x 24 BK5

3.5 or 4.5 Place Digital Indicator with LED Display **Type A1275**

- Front panel dimensions 96 x 24 mm
- Red or green LED display, 14 mm high
- Max. display range, depending on model, ± 1 999 and ± 19 999
- Can be optimally adapted to required measurement task with various measurement modules
- Power supply is electronically isolated from measuring circuit
- Also available with auxiliary power for 2-wire measuring transducers

The digital display measuring instrument, DIGEM 96 X 24 BK5 is suited for general use in industrial environments and is optimally equipped for the respective measurement tasks by means of modules on the measuring inputs.

This instrument series contains modules for the following measurement tasks:

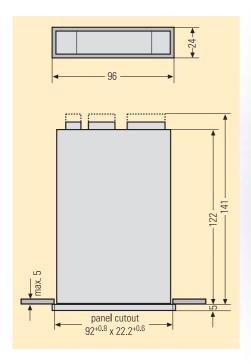
- Direct current and voltage measurements
- Direct current 4 ... 20 mA with auxiliary power for 2-wire measuring transducers
- Alternating current and voltage measurements, sinusoidal
- Alternating current and voltage measurements, TRMS
- Temperature measurements

The DIGEM 96 X 24 BK5 consists of a precision DC voltmeter that can be adjusted to the required measuring task by the installed measuring module.

A suitable measuring module is fitted to each instrument. This is detailed on the serial plate.

The power supply is electronically isolated from the measuring circuit and amounts to, depending on the model, 90...230 V AC or 18...36 V DC / 24 V AC.

The extra functions, display hold, segment test and brightness control are all included in each instrument. The inputs for the control of these functions are electronically connected to the meter input.





Characteristic Values, DIGEM 96 x 24 BK5

Display

Type 7 Segment LED Display Colour red, optionally green

Character Height 14 mm

Display Range 31/2 digit ± 1 999

 $4^{1}/_{2}$ digit ± 19 999

Polarity "-" is displayed automatically

Decimal Point internally fixed Overflow Display 31/2 digit: "1...."

41/2 digit: display blinking

Measuring Range

Direct Voltage **Direct Current**

 \pm 60 mV to \pm 300 V

 \pm 2 mA to \pm 200 mA

0 ... 20 mA

4 ... 20 mA with power supply for 2-wire transducer Alternating Voltage 0 ... 2 V to 0 ... 250 V TRMS Voltage

0 ... 2 V to 0 ... 250 V

Alternating Current 0 ... 200 mA, 0 ... 1 A / 5 A TRMS Current 0 ... 200 mA, 0 ... 1 A / 5 A

Temperature

Pt100 - 50 ... 199,9°C

and

- 200 ... 800°C

Power Supply

90 ... 230 V AC 50 / 60 Hz

18 ... 36 V DC / 24 V AC

Ambient Conditions

Operating Temperature Storage Temperature Relative Humidity Contamination Level

0 ... + 50 °C - 20 ... + 70 °C max. 85% 2

Overvoltage Category

Casing

Protection

rear panel: IP 20 Material polycarbonate Bezel

black, optionally grey, light grey or pebble

front panel: IP 50

grey

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Installation Depth Weight Installation Terminals

max. 141 mm max. 0.22 kg Metal slider screw terminal blocks option: flat plug

The DIGEM 96 x 24 S5 is a high precision panel meter, ideally suited for use in the DC Current tasks (option D) or the DC Voltage tasks (option S).

The available measurement ranges consists of standard signals, so that stock keeping can be reduced.

This universal implementation indicator can be interfaced with different auxiliary power supplies.

The casing has a very shallow installation depth, even at a power supply of 230 V AC.

The display range pre-selection is accomplished by means of clearly arranged coded jumpers at the back of the case.

The zero point and final value can be adjusted with a potentiometer

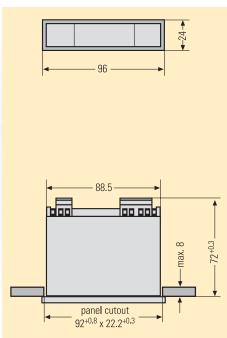
The instrument can optionally be supplied with a brightness control and a HOLD-digital signal.

DIGEM 96 x 24 S5

3.5 Place Digital Indicator with LED Display Type A1215

- Front panel dimensions 96 x 24 mm
- Red or green LED display,
 14 mm high
- Measurement ranges changeable via jumpers
- Zero point and final value adjustable
- IP 54 protection at front panel
- Installation depth 72 mm





Characteristic Values, DIGEM 96 x 24 S5

Display

Type 7 Segment LED
Display Colour red, optionally green

Character Height 14 mm

Display Range 31/2 digit ± 1999 Polarity "—" is displayed

automatically

Decimal point fixed Overflow Display "1..."

Measuring Ranges

Option S:

Direct Voltage 0 ... 200 mV

0 ... 2 V

0 ... 20 V

0 ... 200 V

Option D:

Direct Current 0 ... 2 mA

0 ... 20 mA

4 ... 20 mA

0 ... 200 mA

Power supply

230 V AC 50 / 60 Hz

24 V DC

5 V DC not isolated

Ambient Conditions

Overvoltage Category

 $\begin{array}{lll} \mbox{Operating Temperature} & \mbox{0} \ldots + 50 \ ^{\circ}\mbox{C} \\ \mbox{Storage Temperature} & -40 \ldots + 80 \ ^{\circ}\mbox{C} \\ \mbox{Relative Humidity} & \mbox{max. } 85\% \\ \mbox{Contamination Level} & 2 \\ \end{array}$

Casing

Protection front panel: IP 54

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rear panel: IP 20

Bezel black
Installation Depth 72 mm
Weight max. 0.21 kg
Installation srew clamp

Terminals screw terminal blocks

DIGEM 96 x 24 MF5

5 Place Digital Indicator with Limit Values and Outputs **Type A1235**

- Front panel dimensions 96 x 24 mm
- * Red LED display, 14 mm high
- Free scalable measurement ranges
- Up to 2 open collector outputs
- Analog output
- * RS232 Interface
- IP 54 protection at front panel

The DIGEM 96 x 24 MF5 is a very compact DIN size instrument. The wide range of additional functions built in to the DIGEM 96 x 24 MF5 makes this a universal instrument for high performance automation and measurement tasks.

The instrument can be used for multiple measuring tasks, depending upon the chosen equipment. These tasks include:

- Direct voltage
- Direct current
- Alternating voltage
- Alternating current
- Temperature

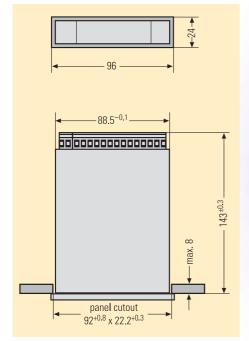
The display range and decimal point can easily be adjusted for the respective measuring tasks, and is freely scalable. It is also possible to make subsequent adjustments on site.

The operation and parameterisation of the instrument can be adjusted with two keys, or through the interface with the supplied PC-Software.

The DIGEM 96 x 24 MF5 is equipped with the following functions:

- Scalability of the display with internally stored functionality
- Analog output
- Measurement value assessment
- Display formation
- Alarm configuration
- DATA logging
- Cascading and LOOP operation

The instrument is designed for applications that require monitoring and evaluation of measurement values, as well as forwarding via analog output or serial interface. This also includes 2 limit values that can be distributed over the measurement range.





Characteristic Values, DIGEM 96 x 24 MF5

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7 Segment LED Type Display Colour red

Character Height approx. 14 mm Display Range - 19 999 ... 99 999 Polarity

"-" is displayed automatically

Decimal Point programmable programmable, blinking Overflow Display

Measuring Ranges

Direct Voltage \pm 200 mV to \pm 650 V **Direct Current** \pm 20 mA to \pm 200 mA

0 ... 20 mA; 4 ... 20 mA

Alternating Voltage 0 ... 650 V Alternating Current 0 ... 200 mA Temperature

- 200 ... + 850 °C

Connection type: 2, 3 or 4 wire

Thermocouples:

Type B, E, J, K, L, N, R, S, T, U

- 260 ... + 1820 °C Shearing pin available

Interface

Limit value: 2 open collector Analog output: max. Resolution 4050 steps

RS232

Power Supply

230 V / 115 V AC 50 / 60 Hz and 18 ... 36 V DC Wide range power supply

Ambient Conditions

Operating Temperature 0 ... + 50 °C Storage Temperature -40 ... +80 °C Relative Humidity max. 85% Contamination Level 2 Overvoltage Category \parallel

Casing

Protection front panel: IP 54 rear panel: IP 20 Bezel black 143 mm

Installation Depth Weight Installation **Terminals**

0.22 kg screw clamp screw terminal blocks direct screw terminals (Measurement input)

The DIGEM 96 x 48 MF5 is a very convenient DIN-size display instrument. The wide range of extra functions built in to the DIGEM 96 x 48 MF5 makes this a universal instrument for high performance automation and measurement tasks.

The instrument can be used for multiple measuring tasks, depending upon the chosen equipment.

These tasks include:

- Direct voltage
- Direct current
- Alternating voltage (TRMS)
- Alternating current (TRMS)
- Temperature

The display range and decimal point can easily be adjusted for the respective measuring tasks, and is freely scalable.

It is also possible to make subsequent adjustments on site.

The operation and parameterisation of the instrument can be adjusted with 2 or 4 keys, or through the interface with the supplied PC-Software.

The DIGEM 96 x 48 MF5 can optionally be equipped with the following functions:

- Scalability of the display with internally stored functionality
- Analog output
- BCD output
- Measurement value assessment
- Display formation
- Alarm configuration
- DATA logging
- Cascading and LOOP operation

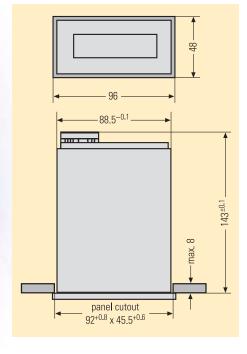
The instrument is designed for applications that require monitoring and evaluation of measurement values, as well as forwarding via analog output or serial interface. This also includes 4 limit values that can be distributed over the measurement range and freely assigned to the output variables.

DIGEM 96 x 48 MF5

5 Place Digital Indicator with Limit Values and Outputs Type A1245

- Front panel dimensions 96 x 48 mm
- Red LED display, 14 mm high
- Free scalable measurement ranges
- Up to 2 open collector outputs and optionally 4 Relays
- Analog output
- * RS232 or RS485 Interface
- IP 54 protection at front panel





Characteristic Values, DIGEM 96 x 48 MF5

Display Type

Display Colour Character Height Display Range Polarity **Decimal Point**

7 Segment LED red

approx. 14 mm - 19 999 ... 99 999 "-" is displayed autom.

programmable programmable, blinking

Overflow Display **Measure Ranges**

Direct Voltage **Direct Current** \pm 200 mV to \pm 650 V \pm 20 mA to \pm 200 mA

0 ... 20 mA; 4 ... 20 mA

0 ... 650 V Alternating Voltage Alternating Current 0 ... 200 mA

TRMS Measurement Crest factor 4 (max. peak

values + 50 % of measurement value) Frequency influence: 5 ... 5000 Hz - 0,1 % to max. - 5 %

Temperature Pt100

− 200 ... + 850 °C

Connection type: 2, 3 or 4 wire

Thermocouples:

Type B, E, J, K, L, N, R, S, T, U

- 260 ... + 1820 °C

Shearing pin available

Interface

Limit value: max. 4 relays (opt.) or 2 open collector outputs Analog output: max. Resolution 4050 steps RS232 or RS485

Power Supply

230 V / 115 V AC 50 / 60 Hz 18 ... 36 V DC / 24 V DC 18 ... 36 V DC and 230 V / 115 V AC

Wide range power supply

Ambient Conditions

Operating Temperature Storage Temperature Relative Humidity Contamination Level Overvoltage Category

0 ... + 50 °C - 40 ... + 80 °C max. 85% 2

Ш

Casing

Protection

Bezel Installation Depth Weight Installation Terminalls

front panel: IP 54 rear panel: IP 20 black

143 mm 0.38 kg screw clamp screw terminal blocks

direct screw terminals (Measurement input)

DIGEM 96 x 48 B5

4 Place Digital Indicator Type A1385

- Front panel dimensions 96 x 48 mm
- ❖ Display range 1 999 ... 9 999
- Can be optimally adapted to required measurement task with various measurement modules
- Two separately adjustable limit values (option)
- Extremely easy programming
- Power supply is electronically isolated from measuring circuit
- Also available with auxiliary power for 2-wire measuring transducers
- Casing suitable for grid mounting
- Quick installation with mounting slider

126 3 panel cutout 92^{+0.8} x 45^{+0.6}

The modular DIGEM 96 x 48 B5 installation measurement instrument is extremely easy to program.

The instrument can be used for multiple measuring tasks, depending upon the installed measuring module. These tasks include:

- Direct voltage
- Direct current
- Alternating voltage
- Alternating current
- Temperature

The display range can be adapted for the 4 ... 20 mA and 0 .. 20 mA measuring ranges without a calibrator, even after installation of the instrument.

The measuring instrument is thus also suitable for applications that require frequent, on-site adjustments to the display.

The DIGEM 96 x 48 B5 is a high precision DC voltmeter, which is adapted to the required measuring task by the installed measuring module.

The measured values are processed by a microcomputer and displayed on a 7-segment display unit.

Upper and lower display range values, relay switching performance, limit values and hysteresis can all be adjusted with the front panel keys.

The selected parameters can be protected against unauthorised alteration with an external contact at the back of the instrument.

If limit values need to be adjusted during operation, protection can be disabled.

Each instrument is equipped with a control input which allows for the storage of display values to memory, and which freezes the current display. The measuring cycle is not influenced by this function.



Characteristic Values, DIGEM 96 x 48 B5

Display

Type 7 Segment LED Display Colour red Character Height 14 mm

Display Range - 1 999 ... 9 999

"-" is displayed automatically **Polarity Decimal Point** programmable Overflow Display blinking - top dash

Measuring Ranges

Direct Voltage \pm 60 mV to \pm 300 V **Direct Current** \pm 2 mA to \pm 200 mA

0 ... 20 mA

4 ... 20 mA with power supply for 2-wire transducer Alternating Voltage 0 ... 2 V to 0 ... 700 V Alternating Current 0 ... 200 mA, 0 ... 1 A / 5 A

TRMS Voltage 0 ... 700 V TRMS Current

0 ... 200 mA, 0 ... 1 A / 5 A Crest factor 6 (additional 0,5 % of

measurement value)

Temperature Pt100 - 200 ... + 800 °C

Power Supply

230 V / 115 V AC 50 / 60 Hz

18 ... 36 V DC / 24 V AC

Ambient Conditions

Operating Temperature 0 ... + 50 °C Storage Temperature - 20 ... + 70 °C 2 Contamination Level Overvoltage Category Ш

Casing

Protection

front panel: IP 54 rear panel: IP 20 Bezel black 0.3 kg

Weight Installation

quick mounting tabs **Terminals** screw terminal blocks

Display ranges can easily be adjusted with coded jumpers and potentiometer.

These measuring instruments can be used for all industrial applications thanks to their robust metal casings.

Measuring ranges are preset at the factory in accordance with the respective measuring task.

Depending on the model, the following measuring ranges are available:

- 4 ... 20 mA with auxiliary power for 2-wire measuring transducer
- Direct current and direct voltage measurement
- Alternating voltage measurement
- Alternating current measurement in combination with current transformer
- Temperature measurement
- Frequency measurement

Display range pre-selection is accomplished by means of clearly arranged coded jumpers inside the instruments.

The corresponding potentiometers for fine adjustment can be accessed by removing the display filter from the front panel.

These measuring instruments are thus suitable for applications that require on-site display range adjustments.

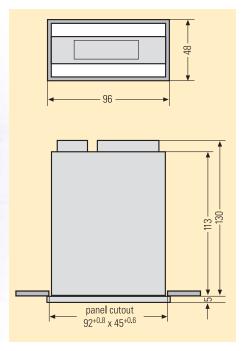
Complete scaling within the 4 ... 20 mA measuring range can be accomplished only with the standard 4 mA signal.

DIGEM 96 x 48 AK5

3.5 Place Digital Indicator Type A1065

- Robust metal casing
- Power supply electrically isolated from measuring circuit
- Also available with auxiliary power for 2-wire measuring transducers
- Display range max. ± 1 999





Characteristic Values, DIGEM 96 x 48 AK5

Display

Type 7 Segment LED Display Colour red, optionally green Character Height approx. 14 mm Display Range

Polarity "-" is displayed automatically **Decimal Point** internally adjustable Overflow display blinking - top dash

Measuring Ranges

Direct Voltage \pm 200 mV to \pm 300 V

± 60 mV; ± 150 mV and \pm 300 mV

Direct Current \pm 200 μ A to \pm 200 mA

0 ... 20 mA

4 ... 20 mA with power supply for 2-wire transducer

Alternating Voltage 0 ... 199,9 V; 0 ... 700 V TRMS Voltage 0 ... 100,0 V; 0 ... 700 V **Alternating Current**

through current transformer

TRMS Current 0 ... 1 A / 5 A 0 ... 500.00 Hz Frequency

Pt100 Temperature 0 ... 199,9 °C

> and - 200 ... 800 °C

0 ... 1 A / 5 A

Thermocouples Typ J 0 ... 760 °C

Typ K 0 ... 1260 °C

Power Supply

230 V AC 50 / 60 Hz 115 V AC 50 / 60 Hz 24 V DC / AC

Ambient Conditions

Operating Temperature 0 ... + 50 °C Storage Temperature - 20 ... + 70 °C Relative Humidity max. 85 % Contamination Level 2 Overvoltage Category $\parallel \parallel$

Casing

Protection front panel: IP 40 rear panel: IP 20

Bezel black Weight 0.4 kg Installation screw clamp Terminals flat plug or

screw terminal blocks

DIGEM 96 x 48 MB5

3.5 Place Digital Indicator Type A1225

- Front panel dimensions 96 x 48 mm
- Red or green LED display, 14 mm high
- Wide, freely selectable, setting range
- Decimal point and final value adjustable

The DIGEM 96 x 48 MB5 is an overview display in DIN-casing that allows for a wide measurement range for current and voltage.

This instrument is available in two models:

- * as option F for direct voltage or
- as option AC for alternating voltage and alternating current

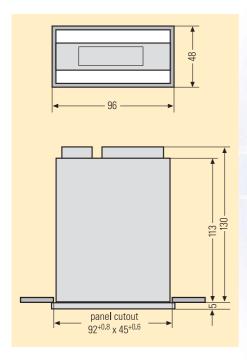
The final value of the display can be adjusted in range 1:10 for DC measurements. This makes the DIGEM 96 x 48 MB5 suitable for many measuring tasks.

The wide setting range guarantees an uncomplicated adjustment to the measured variable.

Display and measurement range pre-selection is accomplished by means of a DIP switch, placed at the back of the case.

The decimal point and final values are also adjustable with this DIP switch.

The instrument can optionally be equipped with a HOLD digital signal.





Characteristic Values, 96 x 48 MB5

Display

Type 7 Segment LED
Display Colour red, optionally green

Character Height 14 mm

Display Range 31/2 digit \pm 1999

Polarity "—" is displayed automatically

Decimal Point fixed Overflow Display "1 ..."

Measuring Ranges

Option F:

Direct Voltage 0 ... 2 V 0 ... 20 V 0 ... 20 V

0 ... 200 V

Option AC:

Alternating Voltage 0 ... 500 V Alternating Current 0 ... 1 A 0 ... 5 A

Power Supply

230 V / 115 V AC 50 / 60 Hz 24 V AC 50 / 60 Hz

24 V DC

Ambient Conditions

 $\begin{array}{lll} \text{Operating Temperature} & 0 \dots + 50 \text{ °C} \\ \text{Storage Temperature} & -40 \dots + 80 \text{ °C} \\ \text{Relative Humidity} & \text{max. 85\%} \\ \text{Contamination Level} & 2 \\ \text{Overvoltage Category} & \text{II} \\ \end{array}$

Casing

Protection front panel: IP 40 rear panel: IP 20

Bezel black
Installation Depth 130 mm
Weight max. 0.5 kg
Installation screw clamp
Terminals screw terminal blocks

The DIGEM 96 x 48 SN5 is a standard display in DIN-casing that allows for a wide adjustable measurement range for current and voltage.

The DIGEM 96 x 48 SN5 is perfectly suited for interfacing with different auxiliary powers because of its wide range power packs (option).

The final value can be adjusted in the range 1:3. This feature, including the high level of protection, makes measurement tasks in robust environments possible.

The display range and decimal point pre-selection is accomplished by means of clearly arranged coded jumpers at the back of the case.

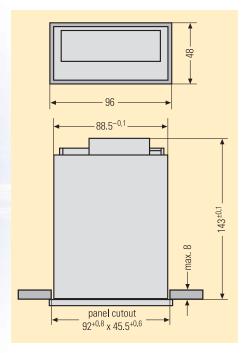
The initial and final values are adjustable with potentiometers located at the front of the instrument.

DIGEM 96 x 48 SN5

3.5 Place Digital Indicator Type A1255

- Front panel dimensions 96 x 48 mm
- Red or green LED display
- Digit height: 14 mm or 20 mm
- Wide, freely selectable, setting range
- Decimal point and final value adjustable
- Brightness control
- Zero point offset
- IP 54 protection at front panel





Characteristic Values, DIGEM 96 x 48 SN5

Display

Type 7 Segment LED
Display Colour red, optionally green
Character Height 14 mm or 20 mm
Display Range 31/2 digit ± 1999

Polarity "—" is displayed automatically Decimal Point externally selectable

Overflow Display "1 ... "

Measuring Ranges

 $\begin{array}{ll} \mbox{Direct Voltage} & \pm 1 \mbox{ V to } \pm 300 \mbox{ V} \\ \mbox{Direct Current} & 0 \dots 1 \mbox{ mA} \\ \mbox{0} \dots 20 \mbox{ mA} \\ \mbox{0} \dots 200 \mbox{ mA} \end{array}$

Power Supply

230 V / AC 50 / 60 Hz or 115 V / AC 50 / 60 Hz or 24 V AC 50 / 60 Hz or 18 ... 36 V DC and 230 V/115 V AC 50 / 60 Hz Wide range power supply

Ambient Conditions

 $\begin{array}{lll} \mbox{Operating Temperature} & 0 \dots + 50 \ \mbox{°C} \\ \mbox{Storange Temperature} & -40 \dots + 80 \ \mbox{°C} \\ \mbox{Relative Humidity} & \mbox{max. 85\%} \\ \mbox{Contamination Level} & 2 \\ \mbox{Overvoltage Category} & \mbox{III} \\ \end{array}$

Casing

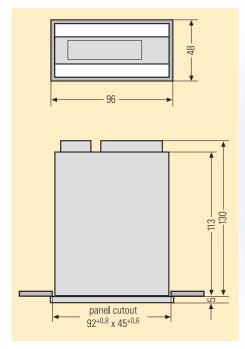
Protection front panel: IP 54 rear panel: IP 20 Bezel black

Bezel black
Installation Depth 143 mm
Weight max. 0.5 kg
Installation screw clamp
Terminals screw terminal blocks

DIGEM 96 x 48 CK5

Digital Indicator with Limit Value and LED Display **Type A1265**

- Front panel dimensions 96 x 48 mm
- Max. display range 19 999 to + 32 765
- Flexible through modular plug-in system
- Easy adjustment
- As an option max. 4 limit values possible
- Adjustable to client specific characteristic curve
- Addition, subtraction of two measurement values
- Multiplication, division of two measurement values
- Automatic TARE function



- Automatic alignment at pressure measurement
- Storage of min./max. measurement values
- Power supply is electronically isolated from the other circuits
- Also available with auxiliary power for 2-wire measuring transducers
- * RS232 and RS485 interface (optionally)
- Analog output (optionally)
- Casing suitable for grid mounting

The DIGEM 96 x 48 CK5 is a precision, modular panel meter.

The instrument can be equipped with a multitude of various measuring modules for a variety of measuring

Scale graduations and set points are easy to adjust with the keys at the front panel, even after the instrument has been installed.

Furthermore, the extensive additional functions expand the range of applications so that the measuring instruments can be adapted optimally to the required task.

These instruments can be equipped for the following measurement tasks:

- Direct current and voltage measurements
- Alternating current and voltage measurements
- Temperature measurements
- Frequency and RPM measurements
- Pressure measurements
- Pulse counter
- Display in cos φ
- Non-linear input quantities

The instrument is optionally also designed for applications which require monitoring and evaluation of measurement values, as well as forwarding these via analog output or serial interface.



Characteristic Values, DIGEM 96 x 48 CK5

Onaraotorio	dio Valado, Dige
Display	
Туре	7 Segment LED
Display Colour	red, optionally green
Character Height	approx. 14 mm
Display Range	- 19 999 32 765
Polarity	"-" is displayed
	automatically
Decimal point	programmable
Overflow Display	blinking – top dash
M	

Measuring Ranges

Direct Voltage \pm 60 mV to \pm 300 V Direct Current \pm 2 mA to \pm 200 mA 0 ... 20 mA

4 ... 20 mA with power supply for 2-wire transducer

Alternating Voltage 0 ... 700 V Alternating Current 0 ... 200 mA; 0 ... 1 A / 5 A

TRMS Voltage 0 ... 700 V TRMS Current 0 ... 200 mA; 0 ... 1 A / 5 A

Measurement value) Pt100 Temperature - 200 ... + 800 °C - 328 ... + 1473 °F Thermocouples Type J, K, R, S 0 ... + 1.600°C - 310 ... + 2 300 °F $0 \dots 10\ 000\ \Omega$ Resistance

6 (additionally 0,5 % of

Frequency 0 ... 200,00 kHz Resolution max. 0,1 Hz min. 2 mV / V Pressure max. 20 mV / V Pulse Counter up-counter, down-counter

Interface

Crest Factor

Limit value: max. 4 relays Analog output (optionally) Serial Interface (optionally) RS232 or RS485

Power Supply

90 ... 230 V AC 50 / 60 Hz 90 ... 260 V DC or 18 ... 36 V DC / 24 V AC 50 / 60 Hz

Ambient Conditionns

Operating Temperature 0 ... + 50 °C - 20 ... + 70 °C Storage Temperature Relative Humidity max. 85 % Contamination Level Overvoltage Category Ш

Casing

Protection front panel: IP 40 rear panel: IP 20 Bezel black Weight 0.9 kg Installation mounting tabs **Terminals** screw terminal blocks The DIGEM 144 x 72 C5 is suited for applications that require more than two limit values, or where simultaneous use of outputs and interfaces is necessary.

The modular measuring input can be equipped for the following measuring tasks:

- Direct current and voltage measurements
- Alternating current and voltage measurements
- Temperature measurements
- Frequency and RPM measurements
- Pulse counter
- Display in cos φ
- Non-linear input quantities

The MESSCONTACTER model allows for the configuration of four limit values. Alarm messages are read out via four relays. Alarms are also signalled with LED's.

Additional features of this model include.

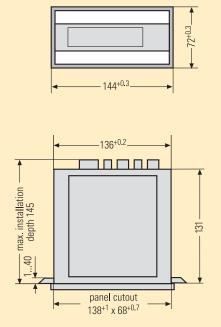
- Adjustable switching hysteresis
- * Adjustable limit value time delay
- Storage of an alarm message to memory
- Front panel dimensions:144 x 72 mm
- Red or green LED display
- Display range: ± 19 990 digits for current and voltage measurement

DIGEM 144 x 72 C5

Digital Indicator with Limit Value and LED Display Type A1005

- Adaptation to customer specific characteristic
- Modular connectors for flexible use
- Calibration and special functions can be selected with keys
- Power supply electrically isolated from measuring circuit
- IP 54 protection at front panel
- Up to 4 limit values
- Analog output (option)
- BCD output (option)
- RS232 and RS485 (option) interface
- Suitable for installation into grid systems





Characteristic Values, DIGEM 144 x 72 C5

Display

Type Display Colour Character Height Display Range Polarity 7 Segment LED red, optionally green approx. 20 mm

max. ± 19 999
"—" is displayed automatically

automatically
Decimal Point programmable
Overflow Display blinking – top dash

Measuring Ranges

Direct Voltage Direct Current ± 200 mV to ± 300 V ± 2 mA to ± 200 mA

± 2 IIIA 10 ± ± 1 A; ± 2 A

0 ... 20 mA; 4 ... 20 mA

Alternating Voltage 0 ... 500 V Alternating Current 0 ... 200 mA TRMS Voltage TRMS Current Crest Factor

oltage 0 ... 500 V urrent 0 ... 200 mA; 0 ... 1 A / 5 A

6 (additionally 0,5 % of Measurement value)

Temperature Pt100

− 200 ... + 800 °C

Resistance Frequency

Resolution max. 0,1 Hz
Pulse Counter up-counter, down-counter

Interface

. . .

– 328 ... + 1 473 °F

0 ... 10 000 **Ω** 0 ... 200,00 kHz max. 0,1 Hz

Limit value: max. 4 relays Analog output (optionally) BCD or analog

Serial Interface (optionally) RS232 or RS485

Power Supply

230 V AC 50 / 60 Hz 115 V AC 50 / 60 Hz 18 ... 36 V DC / 24 V AC

Ambient Conditions

Operating Temperature $0 \dots + 50 \text{ °C}$ Storage Temperature $-20 \dots + 70 \text{ °C}$ Relative Humidity max. 85 % Contamination Level 2 Overvoltage Category III

Casing

Protection

front panel: IP 54 rear panel: IP 20

Bezel black
Weight 0.8 kg
Installation screw clamp
Terminals screw terminal blocks

DIGEM 62 x 38 A5

3.5 Place Digital Indicator with LED or LCD Display Type A1155

- Display range: ± 1 999
- Minimal installation depth of only 26.5 mm
- 5 V supply power
- Power pack available as accessory
- Simple installation with snap fasteners

Depending on the model, these measuring instruments can be equipped with a bright LED display or a reflective LCD display.

The LCD is optionally available with additional illumination (transflective).

The instrument is suited for the measurement of direct current or direct voltage.

Measuring and display ranges are preset at the factory.

The instrument requires a supply voltage of 5 V that is electrically connected to the measuring circuit.

Power packs for 18 V to 36 V DC and 4.75 V to 15 V are available as accessories.

These power packs are snapped onto the rear panel of the measuring instrument.

Accessories

Power Packs for the DIGEM 62 x 38 A5

Power Supply electrically isolated from measuring

circuit

Test Voltage Primary Voltage

500 V depending on

model

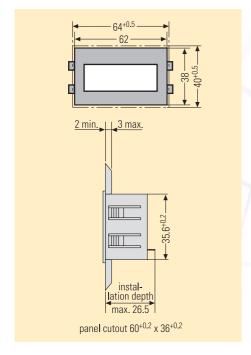
4.75 V ... 15 V DC or 18 ... 36 V DC

Secondary Voltage Load Capability Residual Ripple **Power Consumption**

 $5V \pm 5\%$ max. 250 mA < 200 mV

3 W at Max. Load

14 pole plug **Terminals** connector





Characteristic Values, DIGEM 62 x 38 A5

Display

Decimal Poit

Type 7 Segment LED

with 14 mm character height

or LCD reflective

with 12.7 mm character height

Polarity "-" is displayed

automatically

externally adjustable

or fixed

Overflow Display "1 ... "

Mesuring Ranges

± 2 V to 200 V Direct Voltage

and additionally ± 200 mV

Direct Current \pm 200 μ A to \pm 200 mA

Auxiliary Power $5V \pm 5\%$

Ambient Conditions

0 ... + 50 °C **Operating Temperature** Storage Temperature Relative Humidity

- 20 ... + 70 °C max. 85%

Casing

Protection

Installation **Terminals**

front panel: IP 50 rear panel: IP 0 snap mounting plug connector, appropriate plug is included with instrument

Depending on the model, these measuring instruments can be equipped with a bright LED display or a reflective LCD display.

The instruments have been especially equipped to meet the requirement of the equipment manufacturers.

Connection is accomplished with a 14-pin plug connector.

The required plug is included with the instrument.

The instrument has been designed for the measurement of direct current and direct voltage.

The measuring and display ranges are preset at the factory in accordance with the required measuring task.

The power supply is 5 V \pm 5 % and is electrically connected to the measuring input.

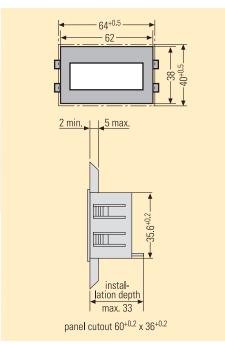
By removing a link, the measuring instrument can have a differential input, in which case no more than + 2 V may be applied between the measurement input and the 0 V power supply terminal.

DIGEM 62 x 38 B5

4.5 Place Digital Indicator with LED or LCD Display Type A1175

- Display range: ± 1 999
- Installation depth of max. 33 mm
- 5 V supply power
- Simple installation with snap fasteners





Characteristic Values, DIGEM 62 x 38 B5

Display

Type 7 Segment LED

with 10 mm character height

or LCD reflective

with 10 mm character height

Polarity

"-" is displayed automatically

Decimal Point externally adjustable

Overflow Diplay blinking

Measuring Ranges

Direct Voltage ± 2 V to 200 V

Direcz Current $\pm 200 \mu A$ to $\pm 200 mA$

Auxiliary Power $5 V \pm 5 \%$

Ambient Conditions

Operating Temparature Storage Temparature Relative Humidity

0 ... + 50 °C - 20 ... + 70 °C max. 85%

Casing

Protection

Installation Terminals front panel: IP 50 rear panel: IP 0 snap mounting plug connector, appropriate plug is included with instrument

PRODUCT TABLE

To be copied, checked and sent back

Fax: +49(0)911/3502-307

Sender:			

■ Product group Analog Display Instruments



- Complete measurement family for current, voltage, power, power factor, frequency, bimetal current measurements
- DIN casing in square and rectangular shape
- Changeable scales
- Subassembly and built-in devices

Product group

Measurement

Transducers



- For all heavy current and process variables
- ❖ According to DIN EN 60688
- Programmable, up to 4 outputs
- ❖ Class 0.5
- Compact style 22.5 / 100 mm
- Screw or DIN rail mounting

Product group

Digital Panel

Instruments



- Current, voltage, temperature and process
- LED and LCD displays
- * 2000 to 40000 digits
- DIN size panel mounting housing
- ❖ 39 different device types

■ Product group

Electrical Equipment

Tester



- ❖ Meets VDE 0701 / 0702 standards
- Panel mounting and portable
- Analog or digital display
- Protective conductor resistance
- Insulation test
- Substitute leakage current measurement / residual current

■ Product group Indicator / Controllers



- For all electrical variables
- ❖ Pt 100 and Thermo elements
- 1 or 2 values
- Switching behaviour quiescent current and load current principle
- 7 Casing sizes

■ Product group Text Display / Printer



- 4 Different versions
- 1 and 2 lines
- 16 / 80 Characters
- Protocol printer
- Paper roll-up mechanism

■ Product group Bargraph Displays



- Analog and digital displays
- 1 and 2 measurement channels
- Display flourescent or LED's
- Up to 4 adjustable limit values
- Band display or printer indication
- Installation casing according to DIN

Product group

Probes



- Differential probes up to 1,5 kV
- ❖ Passive probes up to 450 MHz
- SMT probes and measuring accessories
- Modular oscilloscope probes
- High voltage probe up to 40 kV
- HF and demodulation probes

Product group
Accessories



- Current transformers class 0.5 up to 2000 A
- Shunt resistance according to DIN 43703
- Measuring device switches
- Switch position indicators
- Power supplies



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