

SAD - NUMERICAL DISPLAY WITH ANALOG/DIGITAL-CONVERTER

Features

- Maintenance-free LED-display, ready to connect
- One-lined
- One or two sided
- Up to 5 digits
- LED 7-Segment technology
- 4 digit heights
- 4 digit colours
- Power supply 24VDC with protection against incorrect polarity
- Industrial case design
- Case protection class IP 54
- WIBOND standard polishing
- Colour adapted plexiglas



Advantages

- Good readability, also at greater distances, through light-intensive display modules
- Constant light intensity of the LED's
- Long-life display modules
- Wide reading angle
- Low power input
- Display value with Leading-zero-suppression
- Advice at measuring range overflow
- Adjustable decimal point
- Cyclic actualizing of the measuring value
- Adjustable display area
- All connections accessible from the outside
- Industrial construction
- Modular construction

Options

- More sides
- More lines
- Digit height bigger than 200 mm
- Individual measuring size
- Individual measuring range
- Adjustable mounting angle
- Case finish in any RAL-colour
- Case design (aluminium, stainless steel or other materials)
- Case protection class IP 65
- Case design for Ex-area
- Individual mounting possibilities
- Individual case lettering
- Audible output
- Wide temperature range
- Power supply 230VAC

Application examples

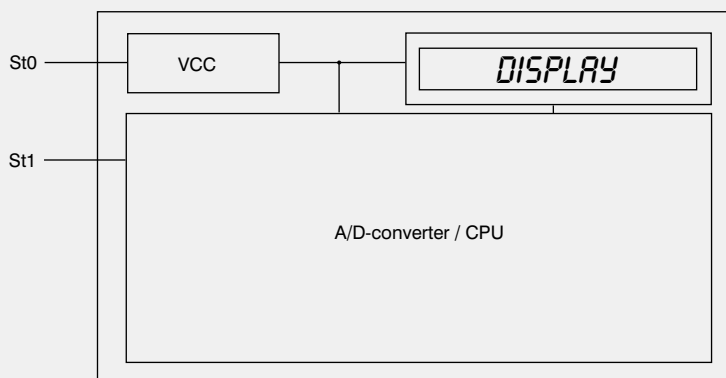
- Production data (e.g. speed of a machine or a production line)
- Representation of physical sizes (size, weight, running metres and so on)
- Representation of fast changing data in the production (e.g. rotation speed changes or voltage fluctuation)

Technical Data

Digit height	38, 60, 100, 200 mm
Reading distance	approx. 12 m with 38 mm digit height
	approx. 25 m with 60 mm digit height
	approx. 40 m with 100 mm digit height
	approx. 70 m with 200 mm digit height
Number of digits	1 to 5 digits
Reading angle	±75°
LED's	high efficiency
Colour	red, green, yellow, blue
Operating voltage	24VDC ± 20%
Measuring sizes	current measuring, voltage measuring
Measuring ranges	0- 10 V, 0-20 mA, 4-20 mA
Input resistance(voltage measuring range)	> 100 kOhm
Eingangswiderstand(current measuring range)	100 Ohm
Measuring accuracy	±1 digit
Case design	one or two sided
Case material	sheet steel
Case mounting	wall mounting or suspended
Case colour	RAL 7015 (slate-gray)
Case protection class IP 54	DIN EN 60529
Electrical safety	DIN EN 60950
Radiated interference	DIN EN 50081
Interference immunity	DIN EN 50082
Plexiglas	anti-reflection coated
Temperature area	0 ... +50 °C
Relative humidity	0 ... 90 % not condensed

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Block diagram



Pin assignment

Power supply St0

Type of cable:

at 24VDC: Connecting cable (e.g. LAPP-cable
Öfflex CLASSIC 100 3x1,5mm²)

at 230VAC: Connecting cable (e.g. LAPP-cable
Öfflex CLASSIC 100 3x1,5mm²)

Power supply: 24VDC



Case pins

Power supply: 230VAC (option)



Case pins

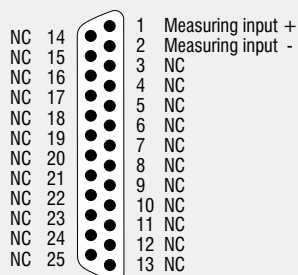
Attention: Disconnect plug before opening!
Display may only be opened and connected by
trained service personnel!

Serial interface St1

Type of cable:

Data cable with Cu-screening braid (e.g. LAPP-
cable UNITRONIC 100YC from 0,14mm²)

Shield has to be connected to the plug housing !



Case pins