

dimensions 96 x 96 x 80.5

analog / digital

- ✓ aluminum housing for front panel installation
- ✓ membrane keyboard
- ✓ diverse display options
- ✓ easy setting thanks to intuitive operator guidance
- ✓ analog output current / voltage
- ✓ data logger function
- ✓ terminal connection



**TFT- color display**  
**4 switching outputs**



### description

The digital display unit BA96 is intended for front panel installation respectively on-site installation or for mounting on a DIN-rail.

The adjacent electrical standard signal in the range from 0...10V or 0/4...20mA is monitored via the evaluation circuit, adjusted due to the programmed settings and transferred galvanically isolated to the output signal 0...10V or 0/4...20mA.

Due to the possible setting of 40 linearization points also nonlinear input signals, e.g. of horizontal cylindrical containers, can be linearized for further processing. Up to 4 separately adjustable relay switching points can be allocated to the input signal.

The modern evaluation electronics has extensive diagnostic functions for system analysis but nevertheless permits an easy start-up and operation by an intuitive and clearly arranged menu navigation. The BA96 is also suitable for the detection and measurement of flow rates and currents. The corresponding mathematical equations are already stored.

The TFT-color display ensures an excellent representation of the measured value and easy legibility. Due to the Bluetooth interface and an integrated data logger function with time stamp for recording up to 500000 measured values, intelligent data management is possible using the BA96.

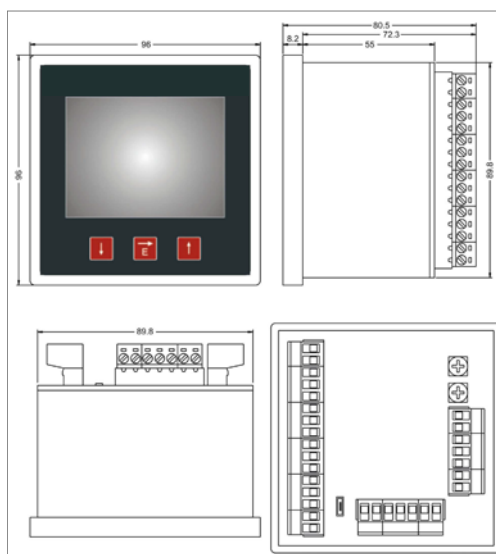
For further technical data as well as notes about connections and usage please refer to the instruction manual included with each device.

article-no.

output signal

BA960900

0/4 ... 20mA / 0 ... 10V, 4 relays



### Technical Data

output signal (digital)  
output signal (analog)

4 Relais, change-over contact, voltage-free  
0 ... 10V / 0/4 ... 20mA

operating voltage  
current consumption (w/o load)  
analog input I – InA1

18 ... 36V DC, reverse polarity protected  
≤ 5W

analog input U – InA1  
digital input – InD1...4

signal 0 ... 20mA: 0mA ... 21mA, max. 30mA  
signal 4 ... 20mA: 3,9mA ... 21mA, max. 30mA  
signal 0 ... 10V: 0V ... 10,5V, max. 15V ( $U_{in} \leq 30V$ )  
signal low – logic 0: -3 ... 5V  
signal high – logic 1: -12 ... 30V ( $U_{in} \leq 36V$ )

output signal I – OutA1

signal 0 ... 20mA: 0mA ... 20.5mA / 22mA  
signal 4 ... 20mA: 3.6 / 3.8mA ... 20.5mA / 22mA

output signal U – OutA1

signal 0 ... 10V: 0V ... 10.5V / 11V

switching outputs, function  
maximum switching capacity AC  
maximum switching capacity DC

4 x voltage-free changeover contact  
253V AC – 6A – 1500VA (ohmic load) / 300VA ( $\cos \varphi \geq 0.7$ )  
30V DC – 6A – 180W  
110V DC – 0.2A – 22W  
220V DC – 0.12A – 26.4W  
≤ 20ms ( $t_d = 0s$ )

response time  $t_{on/off}$ 

characteristic curve deviation

analog input:  $\leq \pm 0.05\%$  FS

temperature deviation

analog input:  $\leq \pm 0.05\%$  FS  
analog input:  $\leq \pm 0.1\%$  FS / 10K  
analog input:  $\leq \pm 0.1\%$  FS / 10K

display  
dimensions  
material

TFT – color display  
96 x 96 x 80.5mm  
PPE / PES / galv. steel / CrNi-steel / PA / NBR-EPDM

temperature (operating)  
system of protection (EN60529)

-20 ... +50°C  
front side: IP54  
rear side: IP20

connection

terminals

### Warning:

Never use these devices in applications where the safety of a person depends on their functionality.