**Instruction Manual** 

## Digital Display DD081 in wall housing

for 0/4...20 mA sensors



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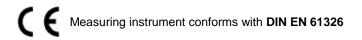
### Introduction

#### Dear customer,

Thousands of customers buy our high standard products every year. There are a few good reasons for doing so:

- The cost-performance ratio reliable quality at a fair price.
- We have the ideal solutions for your measuring tasks based on our expert experience gained over 20 years.
- Our high quality standard.
- Of course, our instruments carry the CE symbol required by the EU.
- We issue calibration certificates and hold seminars.
- Also after the purchase we do not leave you out in the cold we offer a good after sales service.

Our service grants you a fast help.



## 1. Safety instructions

Observe measuring ranges of the sensors!

Observe the admissible storage and transportation temperature as well as the permitted operating temperature (e. g. protect the instrument from direct insolation)

Adjustments and calibrations should only be carried out by qualified employees from the measurement and control technology branch.

We offer you to take back the instruments DD081, which you would like to dispose of.

The manufacturer cannot be held liable for any damage which occurs as a result of non-observance or non-compliance with these instructions. Should the device be tampered with in any matter other than a procedure which is described and specified in the manual, the warranty is cancelled and the manufacturer is exempt from liability.

BEKO Technologies offers no guarantee for the suitability for any other purpose and is not liable for errors which may have slipped into this operation manual. BEKO Technologies is also not liable for consequential damage resulting from the delivery, capability or use of this device.

#### Initiation (electrical connection)

When operating electrical instruments it is unavoidable that certain components are energised dangerously. Work at electrical installations or equipment is only allowed to be carried out by electrical technicians or instructed staff under the guidance and suvervision of an electrical technician according to the electrical regulations.

#### Warning

Any non-observance of the warning notes may cause grievous bodily harm or property damages. Qualified staff has to be well familiar with all warnings according to this instruction manual. The correct and safe operation is subject to a proper transport, professional installation and accurate initiation. The following notes on safety are applied in order to stress safety relevant procedures in this instruction manual - every note is marked by a corresponding icon.



#### This symbol means: Note!

"Note" marks activities or procedures which have a fundamental influence on correct operation. Any non-observance may possibly lead to subsequent damages.

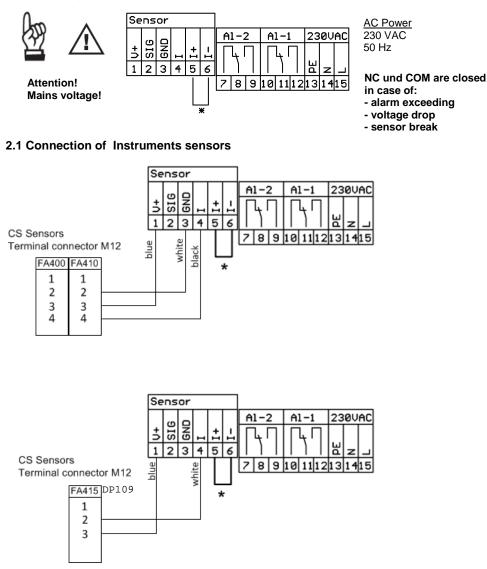


#### This symbol means: Warning!

"Warning" indicates activities or procedures which may lead to a safety risk for persons and property damages in case of non-observance.

## 2. Short-form instruction DD081 with 0/4...20 mA sensors

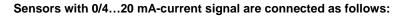
#### Power supply and alarm connection:

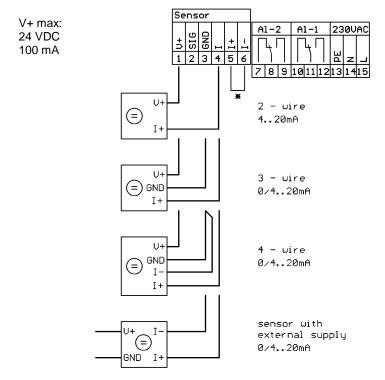


\* A bridge circuit is inserted ex factory . For signal transfer please remove the bridge circuit and attach the connection cables. Attention: Current loop has to be closed!

#### 2.2 Connection of third party sensors

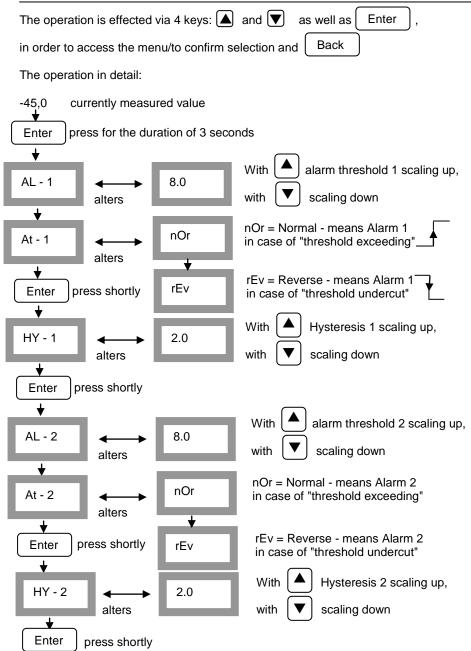
DD081 has one analogue sensor input for connection of sensors with 0/4...20 mA signal.The sensor input is configurated on our premises (according to the customers specification in the order).





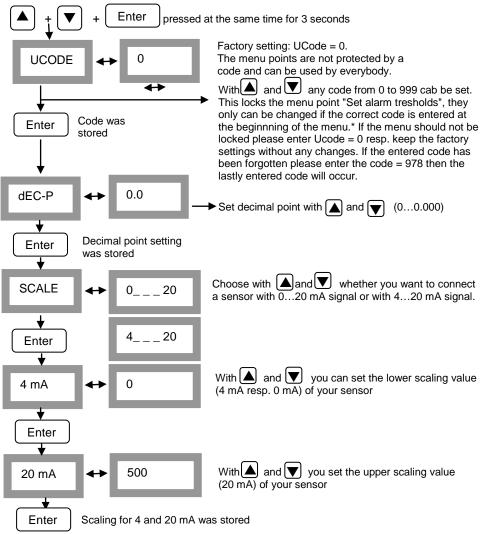
\* A bridge circuit is inserted ex factory . For signal transfer please remove the bridge circuit and attach the connection cables. Attention: Current loop has to be closed!

## 3. Menu with all functions



# 4. Lock operation menu/alarm values - enter code - scale sensor signal

The instruments operation (adjustment of alarm values) can be locked by means of a code.



In order to access the measuring menu please press the ENTER key for 3 seconds. For further operation steps please see point 3. If you have entered a code please use this code in order to set the alarm values (see point 3. "Menu with all functions", page 5).

## 5. Calibration/adjustment

According to DIN ISO certification of the measuring instruments we recommend to calibrate and if applicable to adjust the instruments regularly at the manufacturer. The calibration intervals should comply with your internal specificaton. According to DIN ISO we recommend a calibration interval of one year for the instrument DD081 including probes.

## 6. Warranty

If you have reason for complaint we will of course repair any faults free of charge if it can be proven that they are manufacturing faults. The fault should be reported immediately after it has been found and within the warranty time guaranteed by us. Excluded from this warranty is damage caused by improper use and non adherence to the instruction manual.

The warranty is also cancelled once the instrument has been opened - as far as this has not been mentioned in the instruction manual for maintenance purposes - or if the serial number in the instrument has been changed, damaged or removed.

The warranty time for DD081 is 12 months, the warranty time of the accessories is 6 months. Warranty services do not extend the warranty time.

If in addition to the warranty service necessary repairs, adjustments or similar are carried out the warranty services are free of charge but there is a charge for other services such as transport and packaging costs. Other claims, especially those for damage occurring outside the instrument, are not included unless responsibility is legally binding.

#### After sales service after the warranty time has elapsed

We are of course there for you even after the warranty time has elapsed. In case of malfunctions please send us the instrument with a short-form description of the fault. Please do not forget to indicate your telephone number so that we can call you in case of any questions.

## 7. Technical data

Housing dimensions	118 mm x 92 mm x 133 mm
Display	LED red, 7 segments, height: 13 mm, 5 digits, 2 LED for switching outputs (alarm relays)
Keypad	4 keys: Enter, Back, Up, Down
Sensor input	1 x analogue input for sensors with 020 mA or 0/420 mA signal. Connectable in 2-/3- or 4-wire-technologie possible with 24 VDC supply
Burden analogue input	100 Ohm
Accuracy analogue input	max. $\leq \pm 20 \ \mu$ A, typical 10 $\mu$ A
Sensor supply	24 VDC with Polyfuse max. 100 mA
Voltage supply	230 V, 50/60 Hz
Outputs	2 x relays output, changer, 250 VAC, max. 3 A
Operation temperature	-10 °C+60 °C (storage temperature: -20 °C+80°C)
Alarm thresholds	freeley adjustable
Hysteresis	2 °Ctd

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## Notes

## Contact

- Advice
- Sale
- Service