



Instuctions for installation and operation

Digital Display DD081 in wall housing

for dew point and consumption sensors with digital signal processing (SDI)



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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.



Measuring instrument conforms with **DIN EN 61326**

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 isolation)

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.

We offer no guarantee for the suitability for any other purpose and is not liable for errors which may have slipped into this operation manual. We are 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 supervision 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.

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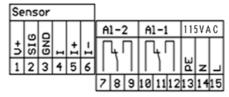
2. Short-form instruction DD081 with dew point sensors

Power supply and alarm connection:









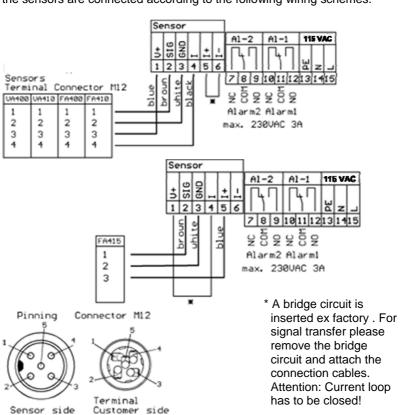
AC Power 115 VAC 60 Hz

NC und COM are clos in case of:

- alarm exceeding
- voltage drop
- sensor break

DD081 has one sensor input. This sensor input is configured on our premises (according to the customers specification in the order).

In case of digital dew point/consumption sensors (e.g. DP109 etc.) the sensors are connected according to the following wiring schemes.



3. Menu with limited functions (only "adjust alarm threshold")

The operation is effected via 4 keys:
and
as well as
Enter
in order to access the menu/to confirm the selection and
Back

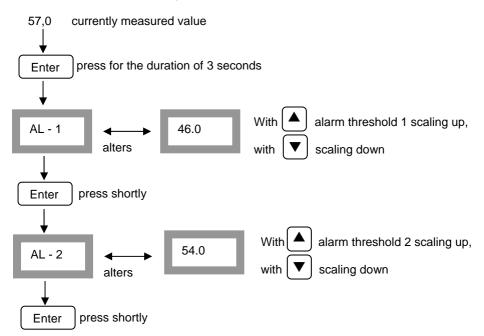
The adjustment of the alarm thresholds is indicated by the example of a connected dew point sensor, however, it applies also to connected sensors with other parameters.

Alarm thresholds are preset on our premises:

In case dew point sensors with measuring range -4...+122 °Ftd: Alarm 1: 46 °Ftd, Alarm 2: 54 °Ftd

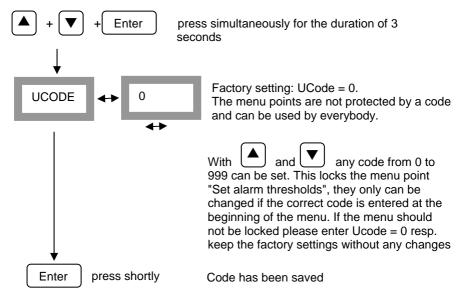
In case dew point sensors with measuring range -112...+68 °Ftd and -76...+86°Ftd: Alarm 1: -40°Ftd, Alarm 2: -31 °Ftd

Alarm and thresholds setting:



4. Lock operation menu - enter code - lock alarm values

The instruments operation (setting of alarm thresholds) can be locked by means of a code.



In order to get into the operating menu the correct code has to be entered first.

If you have forgotten the code please enter Code = 978 then the code which has been entered for the last time will occur.

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 specification. 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 with accessories is 12 months, for the accessories the warranty time 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	4.6" X 3.6" X 5.2"
Display	LED red, 7 segments, height: ½", 5 digits, 2 LED for switching outputs (alarm relays)
Keypad	4 keys: Enter, Back, Up, Down
Sensor input	1 x digital input for dew point and consumption sensors (DP109)
Sensor supply	24 VDC with Polyfuse max. 100 mA
Voltage supply	115 V, 60 Hz
Outputs	2 x relays output, change-over contact, 250 VAC, max. 3 A
Operation temperature	14 °F+140 °F (storage temperature: -4 °F+176°F)
Interfaces	Serial interface by USB adapter via internal plug for programming calibration/test at the PC
Alarm thresholds	freeley adjustable
Hysteresis	36 °Ftd

Contact

- Advice
- Sale
- Service



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