Operating instructions

Digital indicator model DI10

GB

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Digital indicator model DI10
for panel mounting or wall mounting

WIKA
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Prior to starting any work, read the operating instructions!
Keep for later use!

Contents

Declarations of conformity can be found online at www.wika.com.

1 General information

- The instrument described in the operating instructions has been designed and manufactured using state-of-the-art technology. All components are subject to stringent quality and environmental criteria during production. Our management systems are certified to ISO 9001.

- These operating instructions contain important information on handling the instrument. Working safely requires that all safety instructions and work instructions are observed.

- Observe the relevant local accident prevention regulations and general safety regulations for the instrument's range of use.

- The operating instructions are part of the instrument and must be kept in the immediate vicinity of the instrument and readily accessible to skilled personnel at any time.

- Skilled personnel must have carefully read and understood the operating instructions, prior to beginning any work.

- The manufacturer's liability is void in the case of any damage caused by using the product contrary to its intended use, non-compliance with these operating instructions, assignment of insufficiently qualified skilled personnel or unauthorised modifications to the instrument.

- The general terms and conditions, contained in the sales documentation, shall apply.

- Subject to technical modifications.

- Further information:

  - Internet address: www.wika.de / www.wika.com
  - Relevant data sheet: AC 80.06
  - Application consultant: Tel.: (+49) 9372/132-0
    Fax: (+49) 9372/132-406
    E-Mail: info@wika.de

Explanation of symbols

WARNING!
... indicates a potentially dangerous situation that can result in serious injury or death, if not avoided.

Information
... points out useful tips, recommendations and information for efficient and trouble-free operation.

DANGER!
...identifies hazards caused by electric power. Should the safety instructions not be observed, there is a risk of serious or fatal injury.

2 Safety

WARNING!
Before installation, commissioning and operation, ensure that the appropriate instrument has been selected in terms of measuring range, design and specific measuring conditions. Non-observance can result in serious injury and/or damage to equipment.

Further important safety instructions can be found in the individual chapters of these operating instructions.

2.1 Intended use

The device is designed for the evaluation and display of current loop signals. With the setpoints, it is possible to perform simple control tasks (only possible for devices with setpoints).

The instrument has been designed and built solely for the intended use described here, and may only be used accordingly.

Please read the following safety advice and the assembly before installation and keep it for future reference.

If the instrument is transported from a cold into a warm environment, the formation of condensation may result in the instrument malfunctioning. Before putting it back into operation, wait for the instrument temperature and the room temperature to equalise.

Notes on installation

- There must be no magnetic or electric fields in the vicinity of the device, e.g. due to transformers, mobile phones or electrostatic discharge.
- Do not install inductive consumers (relays, solenoid valves etc.) near the device and suppress any interference with the aid of RC spark extinguishing combinations or free-wheeling diodes.
- Keep input, output and supply lines separate from one another and do not lay them parallel with each other. Position “go” and “return lines” next to one another. Where possible use twisted pair. So, you receive best measuring results.
- Screen off and twist sensor lines. Do not lay current-carrying lines in the vicinity. Connect the screening on one side on a suitable potential equaliser (normally signal ground).
- The device is not suitable for installation in areas where there is a risk of explosion.
- Any electrical connection deviating from the connection diagram can endanger human life and/or can destroy the equipment.
- The terminal area of the devices is part of the service. Here electrostatic discharge needs to be avoided. Attention! High voltages can cause dangerous body currents.
- Galvanic insulated potentials within one complex need to be placed on a appropriate point (normally earth or machines ground). So, a lower disturbance sensibility against impacted energy can be reached and dangerous potentials, that can occur on long lines or due to faulty wiring, can be avoided.

The manufacturer shall not be liable for claims of any type based on operation contrary to the intended use.

2.2 Personnel qualification

WARNING!
Risk of injury should qualification be insufficient!
Improper handling can result in considerable injury and damage to equipment.

- The activities described in these operating instructions may only be carried out by skilled personnel who have the qualifications described below.
- Keep unqualified personnel away from hazardous areas.

Skilled electrical personnel
Skilled electrical personnel are understood to be personnel who, based on their technical training, knowledge of measurement and control technology and on their experience and knowledge of country-specific regulations, current standards and directives, are capable of carrying out work on electrical systems and independently recognising and avoiding potential hazards.
The skilled electrical personnel have been specifically trained for the work environment they are working in and know the relevant standards and regulations.
The skilled electrical personnel must comply with current legal accident prevention regulations.

2.3 Special hazards

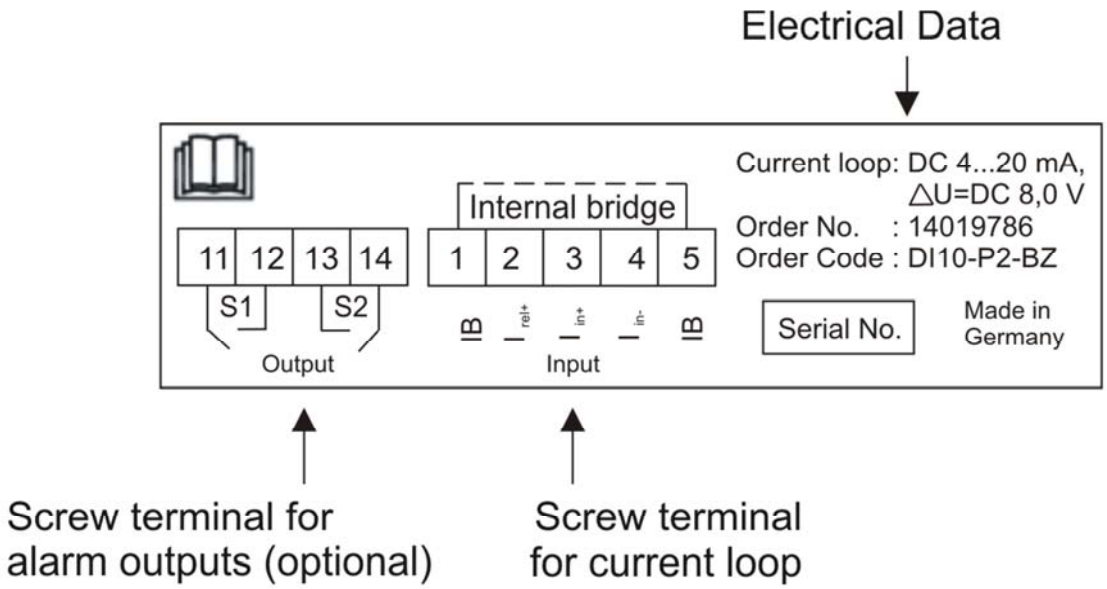
DANGER!
Danger of death caused by electric current.
Upon contact with live parts, there is a direct danger of death.

- Electrical instruments may only be installed and mounted by skilled electrical personnel.
- Operation using a defective power supply unit (e.g. short circuit from the mains voltage to the output voltage) can result in life-threatening voltages at the instrument!

WARNING!
Do NOT use this product as safety or emergency stopping device, or in any other application where failure of the product could result in personal injury or material damage.
Failure to comply with these instructions could result in death or serious injury and material damage.

2.4 Labelling / Safety marks

Product label



Explanation of symbols

Before mounting and commissioning the instrument, ensure you read the operating instructionns!

CE, Communauté Européenne
Instruments bearing this mark comply with the relevant European directives.

3 Specifications

Specifications

Display	
Principle	7-segment LED, red, 4-digit
Character size	14 mm
Indication range	-1999 … +9999
Display rate	0.1….10 sec
Memory	Flash memory (independent of power supply), data retension > 100 years
Input	
Number and type	1 current input 4…20 mA
Accuracy	± 0.3 % ± 1 Digit
Measuring time	0.1…10 sec
Voltage drop	approx. DC 5.1 V, max. 150 mW {approx. DC 8.0 V for option with switching outputs, max. 200 mW}
Power supply	Not required, since the indicator is powered by the 4…20 mA loop
Electrical connection	plug-in terminal, wire cross-section up to 2.5 mm²
{Switching outputs}	
Number and type	2 PhotoMOS outputs, potential free max. AC/DC 30 V, max. 0.4 A

Display	
Material	PC polycarbonate, black
Ingress protection	Front: IP 65, rear: IP 00
Dimensions	96 x 48 x 45 mm (w x h x d) including plug-in terminals
Mounting	snap-in screw element for wall thickness up to 3 mm
{Wall mounting enclosure}	
Material	ASA, black, PG gland
Ingress protection	IP 65
Dimensions	160 x 90 x 60 mm (w x h x d)
Cable gland	Cable diameter: 4.0…8.0 mm
Mounting	fixing holes for screws

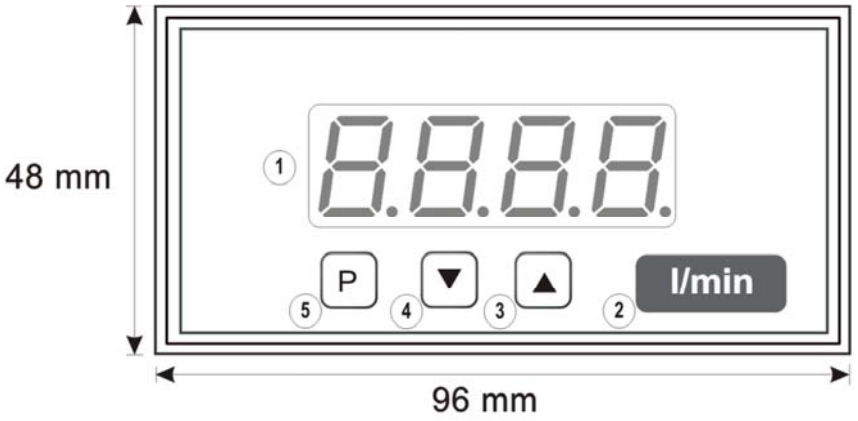
Permissible ambient conditions	
Operating temperature	0…60 °C
Storage temperature	-20…80 °C
Humidity	0…80 % relative humidity, non-condensing

CE conformity	
EMC directive	2004/108/EC, EN 61326 emission (group 1, class B) and interference immunity (industrial application)

{ } Items in curved brackets are optional extras for additional price.

For further specifications see WIKA data sheet AC 80.06 and the order documentation.

Operating elements



1. 7-segment display
2. Gap for physical unit
3. UP key
4. DOWN key
5. Program key

4 Design and function

4.1 Short description

The device is designed for the evaluation and display of current loop signals (4…20 mA). With the setpoints, it is possible to perform simple control tasks (only possible for devices with setpoints).
The configuration of the device is done with an intuitive menu navigation. The 14 mm characters allow a good read-out of the measuring values.

4.2 Scope of delivery

The scope of delivery is:

Indicator for panel mounting:

- Indicator
- 2 fixing elements
- Seal
- Operating instructions

Indicator for wall mounting:

- Indicator
- Operating instructions

Cross-check scope of delivery with delivery note.

5 Transport, packaging and storage

5.1 Transport

Check instrument for any damage that may have been caused by transport. Obvious damage must be reported immediately.

5.2 Packaging

Do not remove packaging until just before mounting. Keep the packaging as it will provide optimum protection during transport (e.g. change in installation site, sending for repair).

5.3 Storage

Permissible conditions at the place of storage:

- Storage temperature: -20 ... +80 °C
- Humidity: 0 ... 80 % relative humidity (no condensation)

Avoid exposure to the following factors:

- Direct sunlight or proximity to hot objects
- Mechanical vibration, mechanical shock (putting it down hard)
- Soot, vapour, dust and corrosive gases
- Potentially explosive environments, flammable atmospheres

Store the instrument in its original packaging in a location that fulfils the conditions listed above. If the original packaging is not available, pack and store the instrument as described below:

1. Wrap the instrument in an antistatic plastic film.
2. Place the instrument, along with shock-absorbent material, in the packaging.
3. If stored for a prolonged period of time (more than 30 days), place a bag, containing a desiccant, inside the packaging.

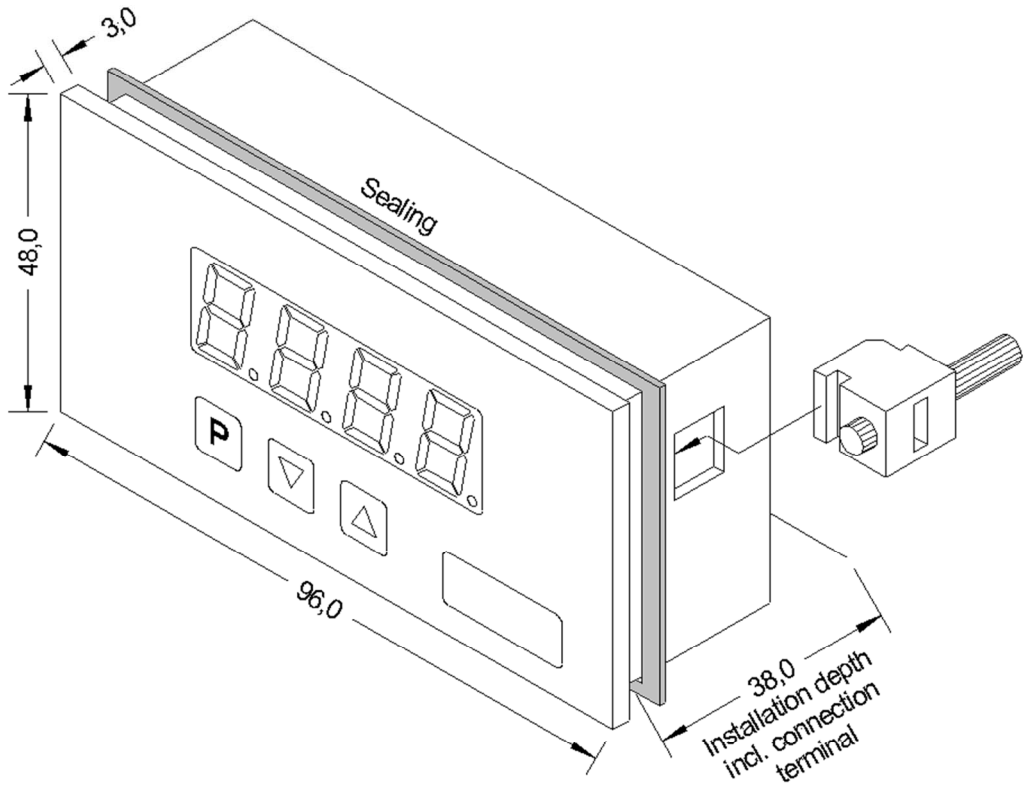
WARNING!
Before storing the instrument (following operation), remove any residual media. This is of particular importance if the medium is hazardous to health, e.g. caustic, toxic, carcinogenic, radioactive, etc.

6 Commissoning, operation

Please read the safety instructions and installation instructions in chapter 2 before installation and keep this user manual for future reference.

6.1 Mounting

Indicator for panel mounting:

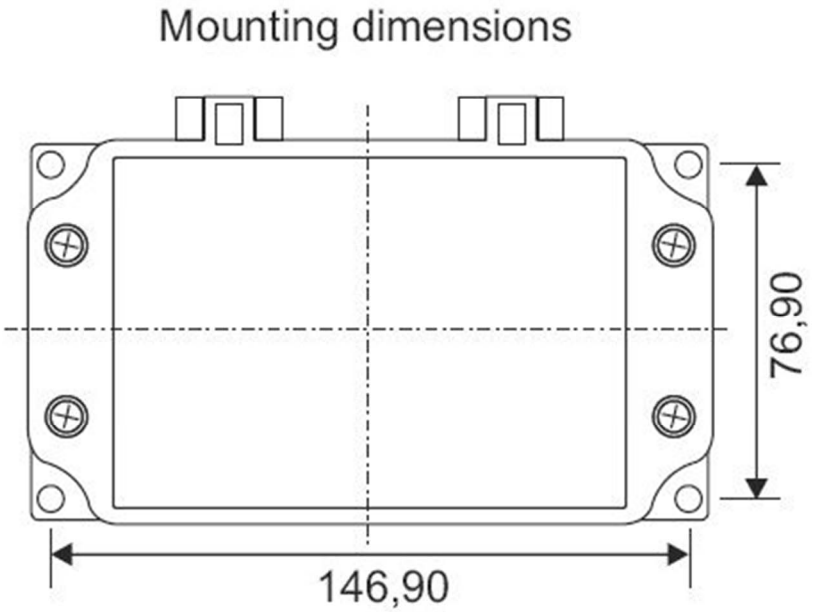


1. After removing the fixing elements, insert the device.
2. Check the seal to make sure it fits securely.
3. Click the fixing elements back into place and tighten the clamping screws by hand. Then use a screwdriver to tighten them another half a turn.

CAUTION! The torque should not exceed 0.1 Nm!

The dimension symbols can be exchanged before installation via a channel on the side!

Indicator for wall mounting:



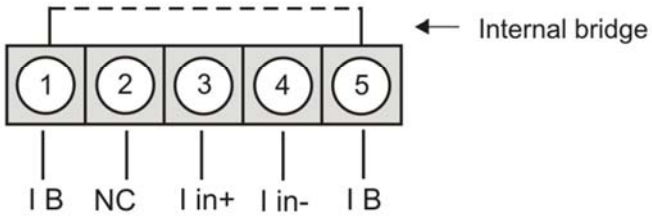
Fasten the wall mounting enclosure with adequate material (screws) at the four mounting holes.

Screws are not part of scope of delivery. Please use screws according to the material of the wall, where you want to install the enclosure.

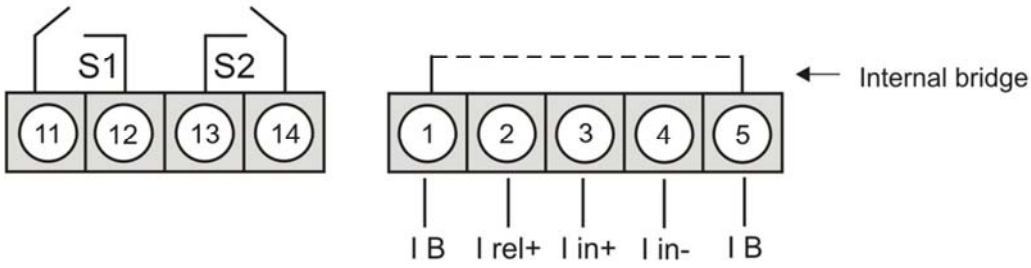
For electrical connection pass the cable through the high-strength cable gland.
Close the enclosure with the attached screws and fasten the screw nut of the cable gland. So ingress protection IP 65 is reached.

6.2 Electrical connection

device without setpoints

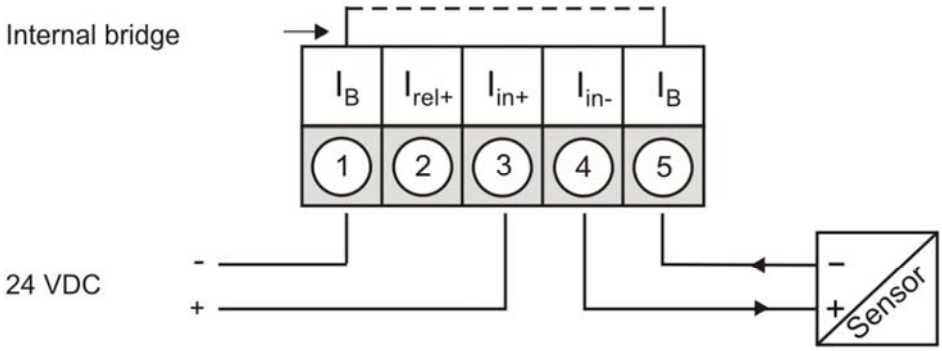


device with setpoints
For devices with switching outputs please use measuring input Irel+.

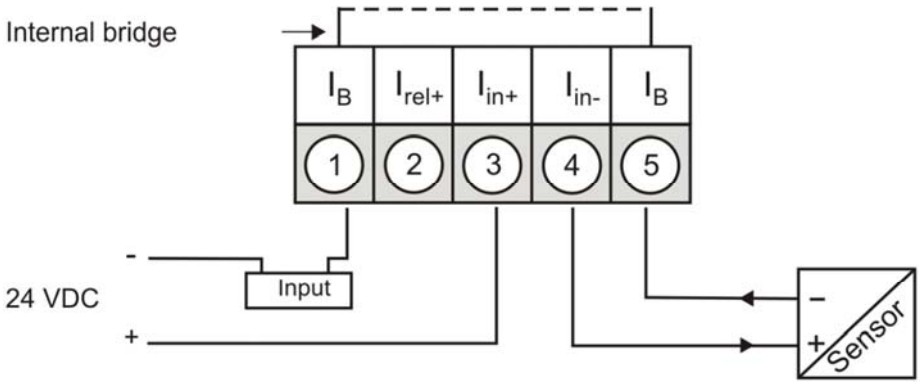


Connection examples
The examples show devices with setpoints.

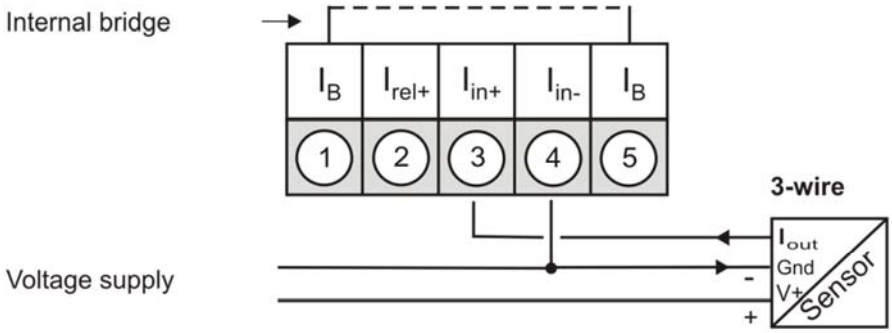
a) Current loop device in combination with a transmitter in current loop technique:



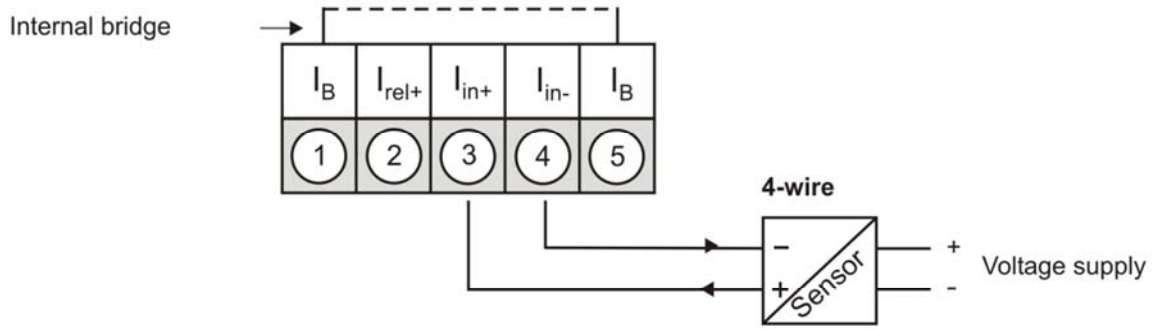
b) Current loop device in combination with another measuring input with low burden:



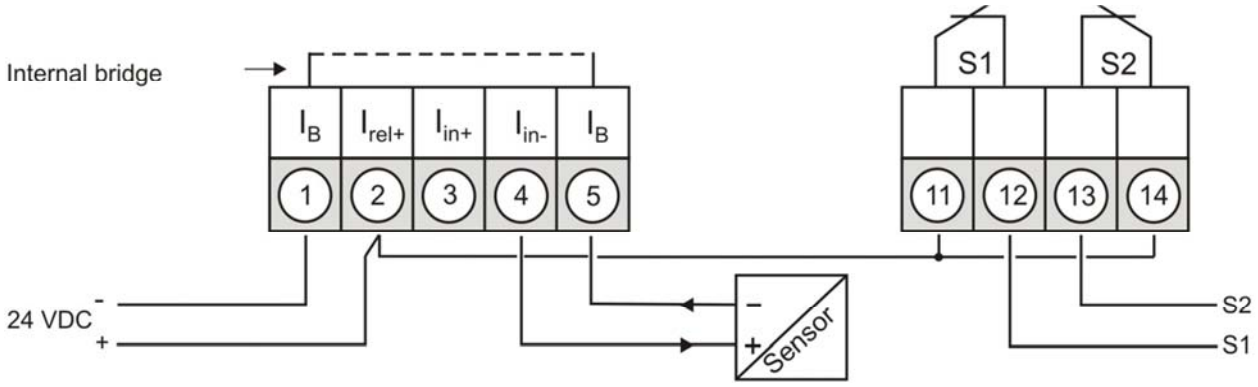
c) Current loop device in combination with a 3-wire sensor:



d) Current loop device in combination with a 4-wire sensor:



e) Current loop device with activated outputs DC 24 V (upto 0.4 A)



6.3 Function and operation description

Operation
The operation is divided into two different levels.

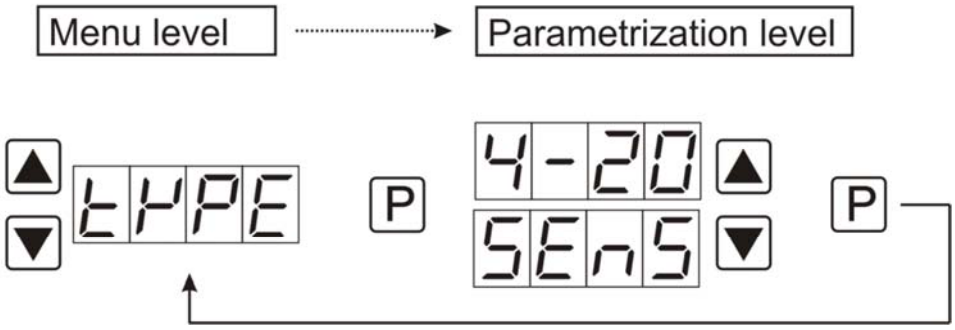
- **Menu Level:** Here it is possible to navigate between the individual menu items.
- **Parameterization level:** The parameters stored in the menu item can be parameterized here.

Functions that can be adjusted or changed are always indicated with a flashing of the display. Adjustments made at the parameterization level should be always confirmed by pressing the **[P]** key to save them.

However, the display automatically saves all adjustments and then switches to operation mode if no further keys are pressed within 10 seconds.

Level	Button	Description
Menu level	P	Change to parameterization level with the relevant parameters.
	▼ ▲	For navigation at the menu level.
Parameterization level	P	To confirm the changes made at the parameterization level.
	▼ ▲	To change the value or setting.

Example:



6.4 Setting up the device

Switching on

Once the installation is complete, you can start the device by applying the current loop. Check beforehand once again that all the electrical connections are correct.

Starting sequence

For 1 second during the switching-on process, the segment test (**8 8 8 8**) is displayed, followed by an indication of the software type and, after that, also for 1 second, the software version. After the start-up sequence, the device switches to operation/display mode.

Standard parameterization

To be able to parameterize the display, press the **[P]** key in operating mode for 1 second. The display then changes to the menu level with the first menu item **tYPE**.

Menu level	Parameterization level
tYPE 	**Selection of the input signal, tYPE:** [P] **4-20**  **SEnS** [P] There are two measuring input options for the current loop: **4-20** mA as works calibration (without application of the sensor signal) and **SEnS** as sensor calibration (with the sensor applied). Confirm the selection with **[P]** and the display switches back to the menu level.

Menu level	Parameterization level

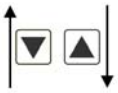
End

Setting the measuring range end value, END:

Set the end value from the smallest to the highest digit with **[▲] [▼]** and confirm each digit with **[P]**. A minus sign can only be parametrized on the highest value digit. After the last digit, the display switches back to the menu level.

If **SEnS** was selected as the input option, you can only select between **nOCA** and **CAL**. With **nOCA**, only the previously set display value is taken over, and with **CAL**, the device takes over both the display value and the analogue input value.

OFFS



Setting the measuring range start/offset value, offs:

Enter the start/offset value from the smallest to the highest digit **[▲] [▼]** and confirm each digit with **[P]**. After the last digit the display switches back to the menu level.

If **SEnS** was selected as the input option, you can only select between **nOCA** and **CAL**. With **nOCA**, only the previously set display value is taken over, and with **CAL**, the device takes over both the display value and the analogue input value.

Menu level	Parameterization level

dot

Setting the decimal point, dot:

P **0** ▲▼ **0.0** ▲▼ **0.00** ▲▼ **0.000** ▲▼ P

The decimal point on the display can be moved with **[▲] [▼]** and confirmed with **[P]**. The display then switches back to the menu level again.

SEC

Setting the display time, SEC:

P **0.1** ▲▼ **0.9** **dann** **1.0** ▲▼ **10.0** P

The display time is set with **[▲] [▼].** The display moves up in increments of 0.1 up to 1 second and in increments of 1.0 to 10.0 seconds. Confirm the selection by pressing the **[P]** button. The display then switches back to the menu level again.

run

Activation / deactivation of the programming lock and completion of the standard parameterization, run:

P **ULOC** ▲▼ **LOC** P

With the aid of the **[▲] [▼]** keys, you can choose between the deactivated key lock **ULOC** (works setting) and the activated key lock **LOC**. Make the selection with **[P]**. After this, the display confirms the settings with "- - - -", and automatically switches to operating mode.

If **LOC** was selected, the keyboard is locked. To get back into the menu level, you must press **[P]** for 3 seconds in operating mode. You must now enter the CODE (works setting 1 2 3 4) that appears using the **[▲] [▼]** keys plus **[P]** to unlock the keyboard. **FAIL** appears if the input is wrong.

6.5 Extended parameterization

By pressing the **[▲] & [▼]** buttons during standard parameterization for one second, the display switches to the extended parameterization mode. Operation is the same as in standard parameterization.

Menu level	Parameterization level
EndA 	**Rescaling the measuring input values, EndA:**  With the aid of this function, you can rescale the input value of 4-20 mA (works setting) without applying a measuring signal. If sensor calibration has been selected, these parameters are not available.
OFFA 	**Rescaling the measuring input values, OFFA:**  With the aid of this function, you can rescale the input value of 4-20 mA (works setting) without applying a measuring signal. If sensor calibration has been selected, these parameters are not available.
tArA 	**Setting the tare /offset value, tArA:**  The given value is added to the linerarized value. In this way, the characteristic line can be shifted by the selected amount.

Menu level	Parameterization level

Zero point tranquilization, ZErO:

ZErO

P **0** P **0** ▲▼ P

With zero point tranquilization, a value range around zero can be preselected at which the display shows zero. If, for example, a 10 is set, the display would show a zero in the range from -10 to +10 and continue below it with -11 and above it with +11.

MIN/MAX value inquiry - Assignment of key functions, tAST:

tASt

P **EHEr** ▲▼ **LI.12** ▲▼ **no** P

Here, you can enter for the operating mode either a MIN/MAX value inquiry or a threshold value correction on the arrow keys.
If the MIN/MAX memory is activated with **EHEr**, the measured MIN/MAX values will be saved during operation and can be called up via the arrow keys **[▲] [▼].** The values are lost if the device is restarted.
If the threshold value correction **LI.1** is selected, the limit values can be changed during operation without hindering the operating procedure.
If **no** is parameterized, the arrow keys **[▼] [▲]** have no function in operating mode.

Flashing of display, FLAS:

FLAS

P **LI-1** ▲▼ **LI-2** ▲▼ **LI.12** ▲▼ **no** P

Here, flashing of the display can be added as an extra alarm function, either to the first limit value (select: **LI-1**), the second limit value (select: **LI-2**) or to both limit values (select: **LI.12**). With **no** (works setting), no flashing is assigned at all.

6.5.1 Limit values, limits, hysteresis

Menu level	Parameterization level
LI-1 	**Limit values / Limits, LI-1:** P 0 P 0 P 0 P 0  P For both limit values, two different values can be parameterized. With this, the parameters for each limit value are called up one after the other.
HY-1 	**Hysteresis for limit values, HY-1:** P 0 P 0 P 0 P 0  P For both limit values, a hysteresis function exists that reacts according to the functional principle (operating current / quiescent current).
Fu-1 	**Function if display falls below / exceeds limit value, Fu-1:** P **HIgH**  **Louu (Low)**  P To indicate if the value falls below the lower limit value, **Louu** can be selected (LOW = lower limit value) and if it goes above the upper limit value, **HIgH** can be selected (HIgH = upper limit value). LOW corresponds to the quiescent current principle and HIgH to the operating current principle.

Menu level	Parameterization level

Limit value /Limits, LI-2:

LI-2

P 0 P 0 P 0 P 0  P

For both limit values, two different values can be parameterized. With this, the parameters for each limit value are called up one after the other.

Hysteresis for limit values, HY-2:

HY-2

P 0 P 0 P 0 P 0  P

For both limit values, a hysteresis function exists that reacts according to the functional principle (operating current / quiescent current).

Function if display falls below / exceeds limit value, FU-2:

Fu-2

P **HIgH**  **Louu (Low)**  P

To indicate if the value falls below the lower limit value, Louu can be selected (LOW = lower limit value) and if it goes above the upper limit value, high can be selected (HIGH = upper limit value). LOW corresponds to the quiescent current principle and HIGH to the operating current principle.

Menu level	Parameter-Ebene

Setting the code, CODE:

CodE

P **1** P **2** P **3** P **4**  P

With this setting, it is possible to select an individual code (works setting 1 2 3 4) for locking the keyboard. To locl/release the key, proceed according to menu item run.

6.5.2 Additional setpoints

Menu level	Parameter-Ebene

Setpoints - Number of additional setpoints, SPCt:

SPCt

In addition to the start and end value, 8 extra setpoints can be defined to linearize non-linear sensor values. Only the activated setpoint parameters are displayed.

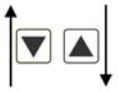
Display values for setpoints dIS1 … dIS8:

dIS1

Under this parameter the value of the setpoints is defined. With sensor calibration, as with end value/offset, you will be asked at the end whether a calibration should be made.

Analogue values for setpoints INP1 … INP8:

InP1

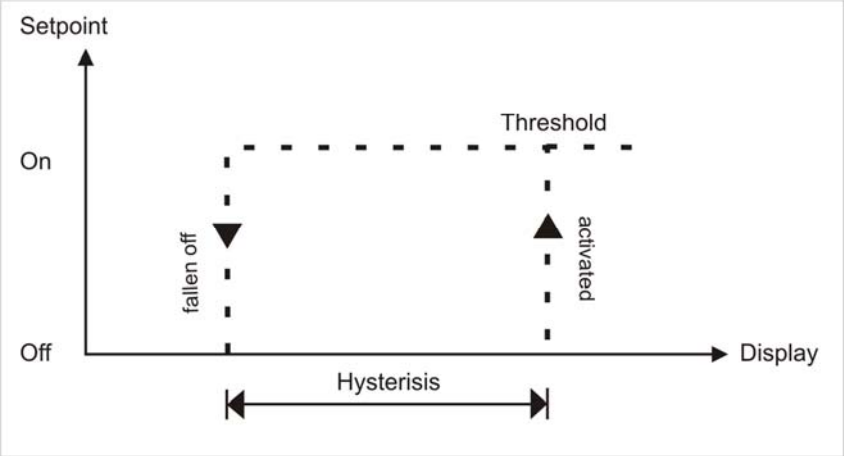


The setpoints are only displayed with the works calibration (4-20 mA). Here, the desired analogue values can be freely selected. The input of constantly rising analogue values must be carried out by the customer/user.

6.6 Functional principle of the setpoints

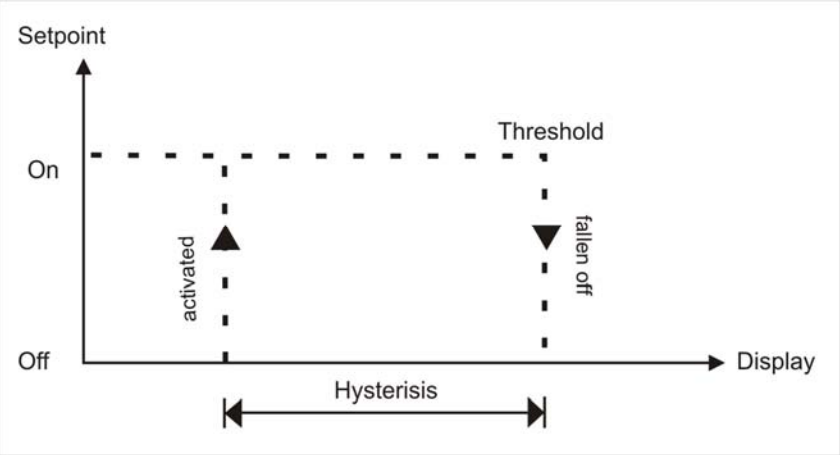
Operating current

The setpoint S1-S2 is off below the threshold and on reaching the threshold.



Quiescent current

The setpoint S1-S2 is on below the threshold and switched off on reaching the threshold.



Alarms / optical setpoint display

An activated setpoint can be optically indicated by flashing of the 7-segment display.

Functional principle of the alarms

Threshold	Threshold/limit value for switch over
Hysteresis	Width of the window between the thresholds
Operating principle	Operating current / quiescent current

6.7 Default values

Reset to default values
To return the unit to a defined basic state, a reset can be carried out to the default values. The indicator must be in “ULOC” mode. An accidental reset during operation is avoided..

The following procedure should be used:

- Switch off the power supply
- Press button **[P]**
- Switch on loop current (approx. 3.8 mA) and press **[P]**-button until „- - - -“ is shown in the display.

With reset, the default values of the program table are loaded and used for subsequent operation. This puts the unit back to the state in which it was supplied.

Caution! All application-related data are lost.

Default values

PN	Parameter	Menu items				Default
0	**tYPE**	4-20	SEnS			SEnS
1	**End**	-1999	to	9999		2000
2	**OFFS**	-1999	to	9999		0400
3	**dot**	0000	to	0.000		0
13	**SEC**	0.1	bis	10.0		1.0
50	**run**	ULOC	LOC			ULOC
1 bin	**OFFA**	-19.99	to	99.99		04.00
2 bin	**EndA**	-19.99	to	99.99		20.00
4	**tArA**	-1999	to	9999		0000
5	**ZErO**	00	to	99		00
6	**tASt**	No	EHtr	LI.12		No
59	**FLAS**	No	LI-1	LI-2	LI12	no
61	**LI-1**	-1999	to	9999		0800
62	**HY-1**	0000	to	9999		0000
63	**Fu-1**	Louu	HIgH			HIgH
71	**LI-2**	-1999	to	9999		1200
72	**HY-2**	0000	to	9999		0000
73	**Fu-2**	Louu	HIgH			HIgH
51	**CodE**	0000	to	9999		1234
100	**SPCt**	0	to	8		0
101 A	**dIs1**	-1999	to	9999		
101 B	**InP1**	-1999	to	9999		
102 A	**dIs2**	-1999	to	9999		
102 B	**InP2**	-1999	to	9999		
103 A	**dIs3**	-1999	to	9999		
103 B	**InP3**	-1999	to	9999		
104 A	**dIs4**	-1999	to	9999		
104 B	**InP4**	-1999	to	9999		
105 A	**dIs5**	-1999	to	9999		
105 B	**InP5**	-1999	to	9999		
106 A	**dIs6**	-1999	to	9999		
106 B	**InP6**	-1999	to	9999		
107 A	**dIs7**	-1999	to	9999		
107 B	**InP7**	-1999	to	9999		
108 A	**dIs8**	-1999	to	9999		
108 B	**InP8**	-1999	to	9999		

7 Maintenance and cleaning

7.1 Maintenance

This instrument is maintenance-free.
Repairs must only be carried out by the manufacturer.

7.2 Cleaning

CAUTION!

- Before cleaning, correctly disconnect the instrument from the mains.
- Clean the instrument with a moist cloth.
- Electrical connections must not come into contact with moisture.

For information on returning the instrument see chapter "9.2 Return".

8 Faults

Fault	Solution
The display of the device is dark	Check the current loop current of the device. Please contact the manufacturer if errors of this kind occur.
The device shows 4 bars in the upper part of the display	Displayed overflow at exceedance of display/measuring range
The device shows 4 bars in the lower part of the display	Displayed overflow at undershooting of display/measuring range
The device shows „Err2“ (Error 2)	During parameterization current < 3,5 mA

CAUTION!
If faults cannot be eliminated by means of the measures listed above, the instrument must be shut down immediately, and it must be ensured that pressure and/or signal are no longer present, and it must be prevented from being inadvertently put back into service.
In this case, contact the manufacturer.

If a return is needed, please follow the instructions given in chapter "9.2 Return".

9 Dismounting, return and disposal

WARNING!
Residual media in dismounted instruments can result in a risk to persons, the environment and equipment. Take sufficient precautionary measures.

9.1 Dismounting

To dismount the instrument, do the following steps:

Indicator for panel mounting:

1. Open the clamping screws and remove the fixing elements.
2. Remove the instrument and seal from panel cutout.

Indicator for wall mounting:

For dismounting the indicator open the four fastening screws of the enclosure and remove it.

9.2 Return

WARNING!
Strictly observe when shipping the instrument:
All instruments delivered to WIKA must be free from any kind of hazardous substances (acids, bases, solutions, etc.).

When returning the instrument, use the original packaging or a suitable transport package.

Enclose the completed return form with the instrument.

The return form is available on the internet:
www.wika.de / Service / Return

9.3 Disposal

Incorrect disposal can put the environment at risk.

Dispose of instrument components and packaging materials in an environmentally compatible way and in accordance with the country-specific waste disposal regulations.

10 Appendix: Declaration of conformity

EG-Konformitätserklärung

Dokument Nr.:

14026168.01

Wir erklären in alleiniger Verantwortung, dass die mit CE gekennzeichneten Produkte

Typ:

DI10

Beschreibung:

Digitalanzeige zum Schalttafeleinbau

gemäß gültigem Datenblatt:

AC 80.06

die grundlegenden Schutzanforderungen der folgenden Richtlinie(n) erfüllen:

2004/108/EG (EMV)

Die Geräte wurden entsprechend den folgenden Normen geprüft:

EN 61326-1:2006

EC Declaration of Conformity

Document No.:

14026168.01

We declare under our sole responsibility that the CE marked products

Model:

DI10

Description:

Digital Indicator for Panel Mounting

according to the valid data sheet:

AC 80.06

are in conformity with the essential protection requirements of the directive(s)

2004/108/EG (EMC)

The devices have been tested according to the following standards:

EN 61326-1:2006

Unterzeichnet für und im Namen von / Signed for and on behalf of

WIKA Alexander Wiegand SE & Co. KG

Klingenberg, 2011-09-05

Geschäftsbereich / Company division: MP-CT

Qualitätsmanagement / Quality management : MP-CT

Alfred Häfner

Harald Hartl

Unterschrift, autorisiert durch das Unternehmen / Signature authorized by the company

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Komplementärin: WIKA Verwaltungs SE & Co. KG – Sitz Klingenberg – Amtsgericht Aschaffenburg HRA 4685

Komplementärin:
WIKA International SE - Sitz Klingenberg - Amtsgericht Aschaffenburg HRB 10505
Vorstand: Alexander Wiegand
Vorsitzender des Aufsichtsrats: Dr. Max Egli

10 Appendix: Declaration of conformity

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WIKA subsidiaries worldwide can be found online at www.wika.com.

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