

Connection Head with digital Indicator

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Important notice



Follow this instruction strictly: the use of the Ex type in Ex area is only allowed as long as the dummy jack is plugged on the pin plug for factory calibration!! (See picture page 2)



Safety warnings

General: When mounting, initiating and operating this indicator the safety precautions and regulations have to be observed. Only staff with a corresponding qualification should work with the indicator. A non-observance of thesafety regulations may cause serious injuries and/or damages. Check before initial operation the suitability of the indicator for this area of application. The technical data of this manual have to be followed. Never connect directly to a voltage supply (eg 24 VDC), that will destroy the indicator. Only use supply units which do not cross the electric limiting values.

Additional notice for Ex models: Repairs are forbidden absolutely. It is not allowed to use indicators with external damages. Observe the notes for mounting and operating, the regulations for the use of equipment in Ex areas, too.

Electrical connection Model DIH10



Electrical connection Model DIH10-Ex

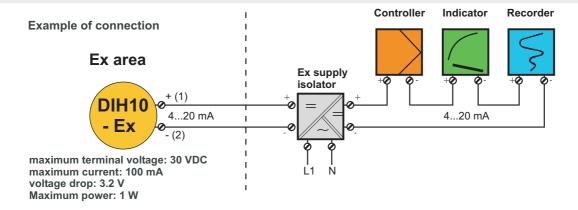


The use of these models in Ex areas is only allowed in intrinsically safe electric circuits.



In addition to this manual comply with the supplied EC Type-Test-Certificate (ZELM 05 ATEX 0260), too.

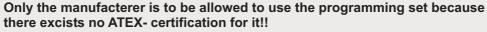
The current loop display is built in and used in a connection head BSZ-H or BSS-H (with or without wall mounting adaptor).



Important notice for Model DIH10-Ex



Comply stricly with: the use of the Ex type in Ex area is only allowed with a plugged dummy jack on the factory calibration connection!!

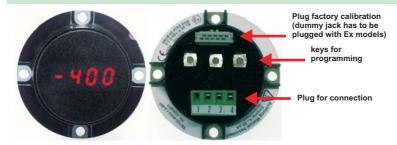




The programming of the indicator has to be done with the three keys at the rear of the display only!!



View, dimension



Program table for programming the indicator			
PN	Description	Range	Factory-set
0	Calibration mode 0 = sensor calibration (one calibration point can be set) 1 = programming of indication (4/20 mA)	0/1	1
1	Final value (Programming the value, which is indicated at 20 mA, eg 600)	-9999999	2000
2	Initial value (Programming the value, which is indicated at 4 mA eg 100)	-9999999	400
3	Selection of decimal point or unit (Programming a unit the indication shifts to the left)	0 0.0 0.00 0.000 °F °C	0
4	Time of average / refresh of display	0,510,0	1,0
5	Offset base characteristic (the +/- range where 0000 is indicated)	0100	1
50	Locking of programming (activating/deactivating locking function for programming)	00009999	0
51	Releasing code (definition of release code for the programming locking funtion under PN50)	00009999	0
100	Number of calibration setpoints (calibration points for sensor calibration only, calibration points reduce the measuring rate)	030	0
101130	Calibration points	-9999999	0

Programming of indication

- 1. Connect the instrument according to the wiring diagram.
- 2. Switch power of the current loop on (current between 4...20 mA). This is followed by an initalisation and a segment test with subsequent switching of the operation mode.
- 3. Press the **P** key. Indication of program number **P 0** .
- 4. Change the program number by simultaneous pressing of P & ▲ keys or P & ▼ keys.
- 5. With the desired program number being chosen, go to the allovated value by pressing the Vor Akey.
- 6. Short pressing of **P** results in a change of digit. The value of the chosen digit is changed by pressing the ▼ or ▲.
- 7. Storing of the new settings is effected by pressing the **P** for approx. 2 sec. This procedure is acknowledged by transversal bars in the display.
- 8. If no other key is actuated, the unit switches to its operation mode after seven seconds.

Additional key functions in standard mode for indication of min/max values

The key serves for indicating the value of the Max memory in the display for some seconds

The key serves for indicating the value of the Min memory in the display for some seconds

Simultaneous pressing of the and keys erases the value of the memory shown in the display



Technical data

Input

Measurement range 4...20 mA

Ri at 20 mA: < 250 ohms Input resistance

Accuracy

-999...+9999 digit Resolution

-99...+999 digit unit is indicated Measuring fault +/-0,2% of measuring range,

+/- 1 digit 100 ppm/K Temperature drift ramp conversion Measuring principle

Indication

LED with 7 segments, 8 mm high, Display red, 4 digits = indication 9999

Overflow/Underflow to HI / to LO

0,1 s - 1 s - 10 s (adjustable) Time of indication

Ambient conditions

-40...+85°C Operating temperature -20...+80°C Storing temperature

Mechanics

Ø 43/48,5/62,5 mm x 37mm Housing

Assembly cut out Ø 43.2 mm

Fastening 4 mounting holes M4

Housing material Macrolon Degree of protection at the front IP 67 connection IP 20 approx. 40 g Weight

at the rear via plug in connector Connection

up to 1,5 mm²

Programmable features

Range of indication Time of indication Decimal point 4th digit to unit (°C/°F)

Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.

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