

Connection head with integrated digital display module

Model DIH10, standard version

Model DIH10-Ex, intrinsically safe version

WIKA data sheet AC 80.11



Applications

- Machine building and plant construction
- Chemical industry
- Petrochemical industry

Special features

- Universal application
- Robust, compact current loop display
- User-friendly configuration
- 7-segment LED display
- Housing versions:
 - Connection head (standard)
 - Wall-mount housing
 - Housing with pipe support



Connection head with integrated digital display module model DIH10

Description

The model DIH10, DIH10-Ex integrated digital display module (digital indicator) is a universal, configurable, current loop display for fitting to electrical thermometers.

The robust, compact display is only applicable where a standard signal of 4 ... 20 mA is already available. When used with the housing versions, it can be an on-site display for the entire industrial sector.

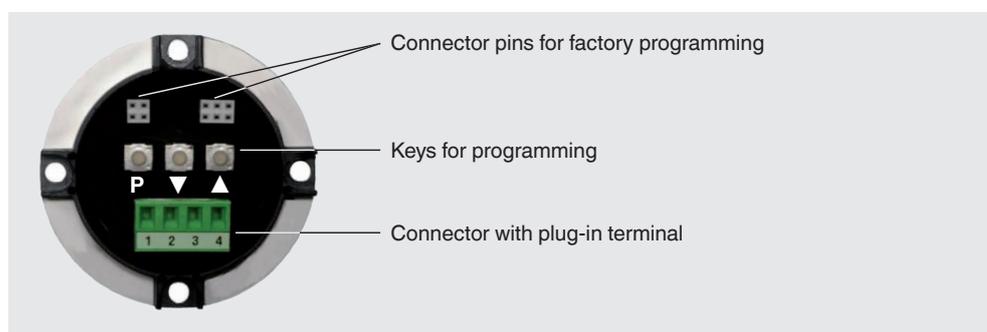
Combined with the ability to rotate the connection head and the large 4-digit, 7-segment LED display is easily readable from any direction. In order to make the electrical connection, the current loop display is simple and easy to open. Buttons provide a user-friendly configuration of the display range.

To operate the connection head with a model DIH10, DIH10-Ex digital display module, a transmitter (4 ... 20 mA) for the measuring point is a precondition.

Specifications

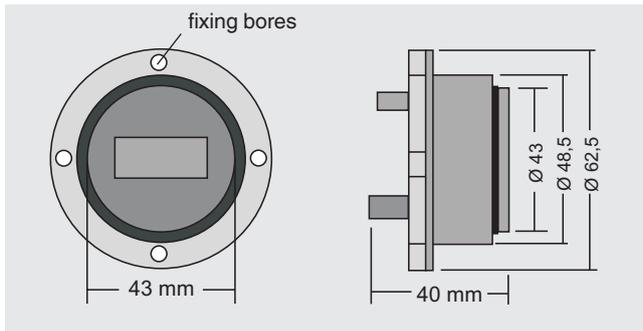
Specifications	Model DIH10, DIH10-Ex (display module)
Input	
Current loop	4 ... 20 mA
Input Impedance R_i with 20 mA	< 160 Ω ($U \leq 3.2$ V)
Voltage drop	< DC 3.2 V at 20 mA Supply via current loop
Accuracy	
Resolution	-999 ... 9999 digit
Measuring error	± 0.2 % measuring range, ± 1 digit
Temperature drift	100 ppm/K
Display	
Principle	LED, rotatable in 90° steps
Display measured value	7-segment, 8 mm high, red, 4-digit = display 9999
Overrange/Underrange	to HI / to LO
Display rate	0.1 s - 1 s - 10 s (adjustable)
Parameters	
Maximum voltage U_i	DC 30 V
Maximum current I_i	100 mA (only for model DIH10-Ex)
Maximum power P_i	1 W (only for model DIH10-Ex)
Ambient conditions	
Operating temperature	DIH10: 0 ... 80 °C DIH10-Ex: 0 ... 60 °C
Storage temperature	-20 ... +80 °C
Module housing	
Dimensions	\varnothing 43.0 / 48.5 / 62.5 mm x 37 mm
Housing material	Polycarbonate
Ingress protection	Front: IP 67 Connection: IP 20 or IP 00
Weight	approx. 55 g
Electrical connection	Plug-in terminal, up to 1.5 mm ² open cable ends
Programmable features	
Scale range, display time, decimal point, unit (°C/°F), zero point stabilisation, programming lock, interpolating points, TAG number	
Housing versions (see dimensions)	
<ul style="list-style-type: none"> ■ Connection head (standard) ■ Wall-mount housing ■ Housing with pipe support 	

Display module, operator side



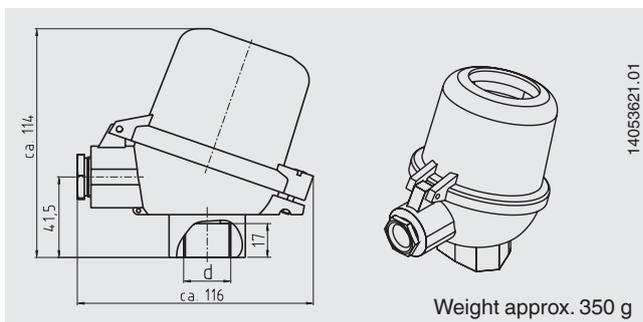
Dimensions in mm

Display module



Housing versions

- Connection head BSZ-H (standard version), model DIH10-Z-*A (with DIH10), DIH10-Y-*A (with DIH10-Ex)

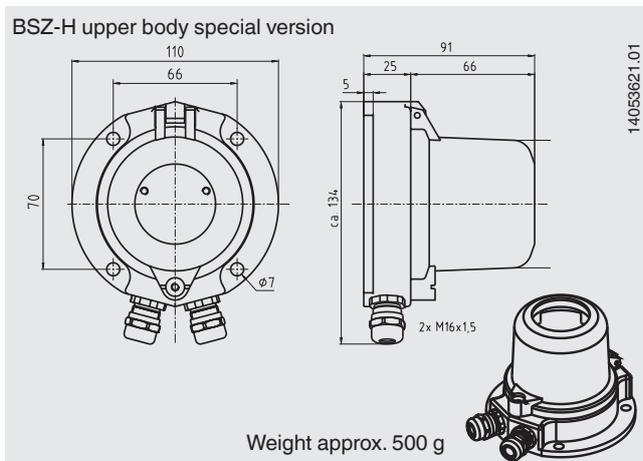


Connection head BSZ-H (standard)

Connection to thermometer d	M24 x 1.5 ½ NPT
Material	Aluminium black, lacquered ¹⁾
Cable gland	1 x M20 x 1.5 1 x ½ NPT
Ingress protection	IP 65 (option: IP 67)

1) RAL 5022

- Wall-mount housing, model DIH10-Z-*C (with DIH10), DIH10-Y-*C (with DIH10-Ex)

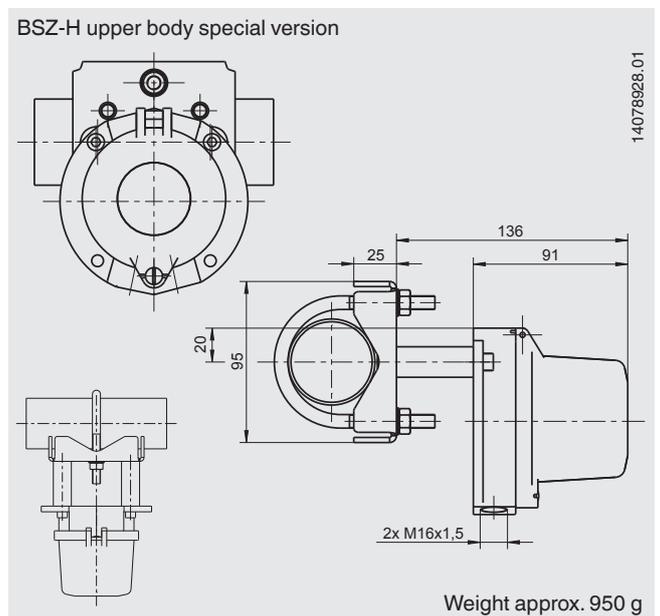


Wall-mount housing

Material	Aluminium black, lacquered ¹⁾
Cable gland	2 x M16 x 1.5
Ingress protection	IP 65 (option: IP 67)

1) RAL 5022

- Housing with pipe support, model DIH10-Z-*D (with DIH10), DIH10-Y-*D (with DIH10-Ex)



Housing with pipe support

Material	Aluminium black, lacquered ¹⁾
Pipe support	Steel plate with high-gloss galvanising
Pipe diameter R	42 ... 60 mm
Cable gland	2 x M16 x 1.5
Ingress protection	IP 65 (option: IP 67)

1) RAL 5022

CE conformity

EMC directive

2004/108/EC, EN 61326 emission (group 1, class A) and interference immunity (industrial application)

ATEX directive (model DIH10-Ex)

94/9/EG, II 2 G Ex ia IIC T6

Approvals (option)

- **EAC**, import certificate, customs union Russia, Belarus, Kazakhstan

Certificates (option)

- 2.2 test report
- 3.1 inspection certificate
- DKD/DAkkS calibration certificate

Approvals and certificates, see website

Ordering information

Model / Explosion protection / Scale range/ Housing / Connection from connection head to neck tube / cable gland / Options

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