Connection head with integrated digital display module
Model DIH10, standard version
Model DIH10-Ex, intrinsically safe version

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)
  - 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.

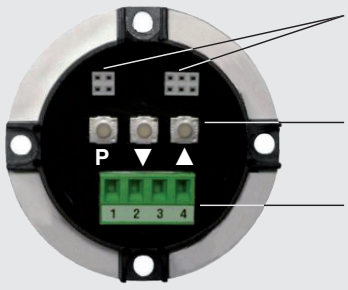
Combined with the ability to rotate the connection head and the large 4-digit, 7-segment LED display is easily readable from any direction. In order to make the electrical connection, the current loop display is simple and easy to open. Buttons provide a user-friendly configuration of the display range.

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)
Current loop	4 ... 20 mA
Input impedance R_i with 20 mA	< 160 Ω (U ≤ 3.2 V)
Voltage drop	< DC 3.2 V at 20 mA Supply via current loop
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)
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)
Permissible temperatures ■ Operating temperature ■ Storage temperature	 Model DIH10: 0 ... 80 °C Model DIH10-Ex: 0 ... 60 °C -20 ... +80 °C
Dimensions	Ø 43.0 / 48.5 / 62.5 mm x 37 mm
Housing material	Polycarbonate
Ingress protection	Front: IP67 Connection: IP20 or IP00
Weight	approx. 55 g
Electrical connection	Plug-in terminal, up to 1.5 mm² 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)	■ Connection head (standard) ■ Housing with pipe support

Display module, operator side



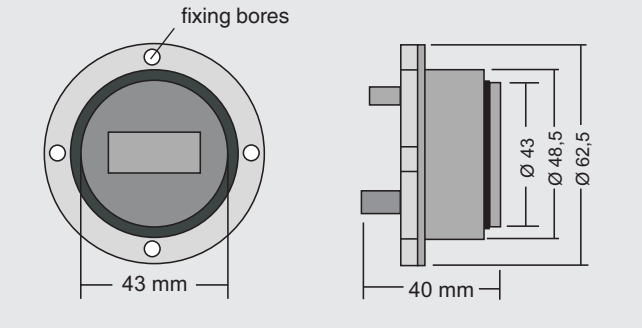
Connector pins for factory programming

Keys for programming

Connector with plug-in terminal

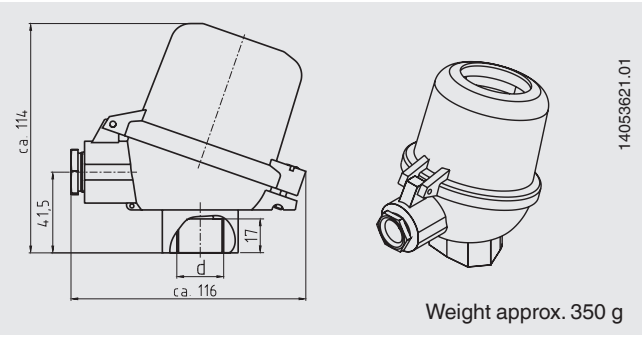
Dimensions in mm

Display module



Housing versions

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

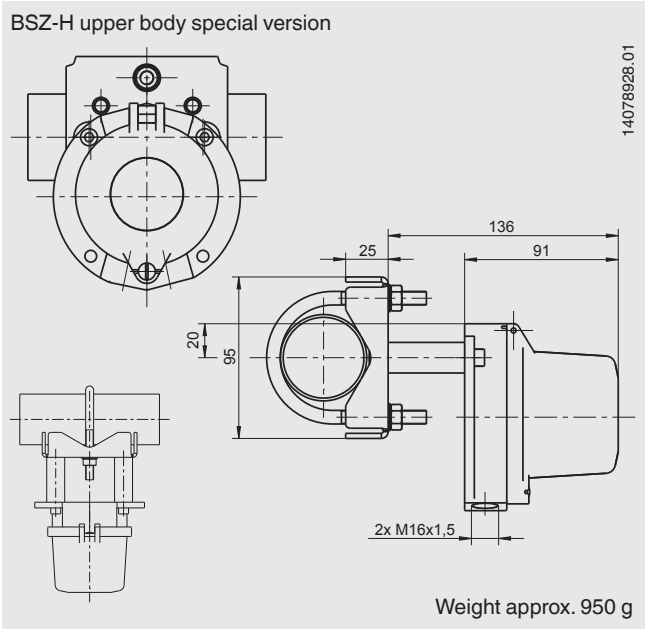


Weight approx. 350 g

Connection head BSZ-H (standard)	
Connection to thermometer d	■ M24 x 1,5 ■ ½ NPT
Material	Aluminium blue, lacquered [1]
Cable gland	■ 1 x M20 x 1.5 ■ 1 x ½ NPT
Ingress protection	IP65 (option: IP67)

1) RAL 5022

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



Weight approx. 950 g

Housing with pipe support	
Material	Aluminium blue, lacquered [1]
Pipe support	Stainless steel
Pipe diameter R	1" ... 2"
Cable gland	2 x M16 x 1.5
Ingress protection	IP65 (option: IP67)

1) RAL 5022

Approvals

Logo	Description	Country
CE Ex	**EU declaration of conformity** ■ EMC directive EN 61326 emission (group 1, class A) and interference immunity (industrial application) ■ ATEX directive (model DIH10-Ex) Hazardous areas	European Community
EAC Ex	**EAC (option)** ■ Electromagnetic compatibility ■ Hazardous areas	Eurasian Economic Community
-	**MTSCHS (option)** Permission for commissioning	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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