

# Преобразователи температуры iTEMP HART TMT112, TMT122, TMT182

## Техническая информация

По вопросам продаж и поддержки обращайтесь:

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# iTEMP HART TMT112



## Benefits:

- Universal settings with HART®-protocol
- High accuracy in total ambient temperature range
- Fault signal on sensor break or short circuit, NAMUR NE 43 compliant
- EMC to NAMUR NE 21, CE
- Ex-Certification: ATEX Ex, CSA IS, FM IS
- Galvanic isolation

## Specs at a glance

- **Accuracy** (Pt100, -50...200 °C)  $\leq 0,2$  K (Pt100, -58...392 °F)  $\leq 0,4$  °F

**Field of application:** Unsurpassed reliability, accuracy and long-term stability in critical processes over all industries. The configurable transmitter not only transfers converted signals from resistance thermometers (RTD) and thermocouples (TC), it also transfers resistance and voltage signals using HART® communication. Swift and easy operation, visualization and maintenance by PC using operating software. Space-saving DIN rail mounting according to IEC 60715 (housing width: 12.6 mm).

## Features and specifications

### Temperature transmitters

#### Measuring principle

##### Input

1 x RTD, TC, Ohm, mV

##### Output

1 x analog 4...20 mA

**Temperature transmitters****Auxiliary power supply**

12...35 V DC (standard-version)

12...30 V DC (Ex-version)

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**Communication**

HART

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**Installation**

DIN rail

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**Accuracy**(Pt100, -50...200 °C)  $\leq 0,2$  K(Pt100, -58...392 °F)  $\leq 0,4$  °F

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**Galvanic isolation**

yes

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**Certification**

UL rec. Com

FM IS,NI,Class I,Div.1+2,Group ABCD

CSA IS,NI,Class I,Div.1+2,Group  
ABCD

ATEX II2(1)G EEx ia IIC T4/T5/T6

ATEX II3G Ex nA IIC T6

CSA General Purpose

# iTEMP HART TMT122



## Benefits:

- Universal settings with HART® protocol
- High accuracy in total ambient temperature range
- Fault signal on sensor break or short circuit, NAMUR NE 43 compliant
- EMC to NAMUR NE 21, CE
- Ex-Certification: ATEX Ex, CSA IS, FM IS
- Galvanic isolation

## Specs at a glance

- **Accuracy** (Pt100, -50...200 °C)  $\leq 0,2$  K (Pt100, -58...392 °F)  $\leq 0,4$  °F

**Field of application:** Unsurpassed reliability, accuracy and long-term stability in critical processes over all industries. The configurable transmitter not only transfers converted signals from resistance thermometers (RTD) and thermocouples (TC), it also transfers resistance and voltage signals using HART® communication. Swift and easy operation, visualization and maintenance by PC using operating software. Installation is realized on DIN rail according to IEC 60715 (housing width: 22.5 mm).

## Features and specifications

### Temperature transmitters

#### Measuring principle

##### Input

1 x RTD, TC, Ohm, mV

##### Output

1 x analog 4...20 mA

## Temperature transmitters

### Auxiliary power supply

12...35 V DC (standard-version)

12...30 V DC (Ex-version)

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### Communication

HART-protocol

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### Installation

DIN rail

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### Accuracy

(Pt100, -50...200 °C)  $\leq 0,2$  K

(Pt100, -58...392 °F)  $\leq 0,4$  °F

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### Galvanic isolation

yes

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### Certification

UL rec. Comp

marine approval

GOST Metrology

FM IS,NI,Class I,Div.1+2,Group ABCD

CSA IS,NI,Class I,Div.1+2,Group ABCD

ATEX II2(1)G Ex ia[ia Ga] IIC T6 Gb

ATEX II3G Ex nA IIC T6

FM+CSA IS,NI,Class I,Div.1+2,Group

ABCD

CSA General Purpose

IECEX Ex ia IIC T6/T5/T4

NEPSI Ex nA IIC T4-T6

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## iTEMP HART TMT182



### Benefits:

- Front end unit or panel unit operation using the hand operating module or PC
- High accuracy in total ambient temperature range
- Fault signal on sensor break or short circuit, NAMUR NE 43 compliant
- EMC to NAMUR NE 21, CE
- Ex-Certification: ATEX Ex ia and dust zone 22 in compliance with EN 50281-1; FM IS; CSA IS
- Galvanic isolation
- Marine approval

### Specs at a glance

- **Accuracy** (Pt100, -50...200 °C)  $\leq 0,2$  K (Pt100, -58...392 °F)  $\leq 0,4$  °F

**Field of application:** Unsurpassed reliability, accuracy and long-term stability in critical processes over all industries. The configurable transmitter not only transfers converted signals from resistance thermometers (RTD) and thermocouples (TC), it also transfers resistance and voltage signals using HART® communication. It can be installed as an intrinsically safe apparatus in Zone 1 hazardous areas. Swift and easy operation, visualization and maintenance by PC using operating software.

## Features and specifications

### Temperature transmitters

#### Measuring principle

#### Input

1 x RTD, TC, Ohm, mV

**Temperature transmitters****Output**

1 x analog 4...20 mA

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**Auxiliary power supply**

11,5...35 V DC (standard-version)

11,5...30 V DC (Ex-version)

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**Communication**

HART-protocol

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**Installation**

Terminal head form B

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**Accuracy**

(Pt100, -50...200 °C)  $\leq$  0,2 K

(Pt100, -58...392 °F)  $\leq$  0,4 °F

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**Galvanic isolation**

yes

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**Temperature transmitters****Certification**

UL Ex IS

UL Ex NI

GL marine approval

GOST Ex i

FM IS,NI,Class I,Div.1+2,Group ABCD

CSA IS,NI,Class I,Div.1+2,Group ABCD

ATEX II1G Ex ia IIC T4/T5/T6

ATEX II3G Ex nA IIC T4/T5/T6

ATEX II3D

ATEX II1G Ex ia IIC T6, II3D

ATEX II3G Ex nA IIC T6, II3D

FM+CSA IS,NI,Class I,Div.1+2,Group  
ABCD

CSA General Purpose

IECEX Ex ia IIC T6/T5/T4

ATEX IECEX II1G Ex ia IIC T6 Ga

EAC Ex ia IIC T6 Ga

GL (German Lloyd)

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