

# Преобразователи температуры iTEMP РСР ТМТ111, ТМТ121, ТМТ181

## Техническая информация

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# iTEMP PCP TMT111



## Benefits:

- Fault signal on sensor break or short circuit, presettable to NAMUR NE43
- UL recognized component to UL 3111-1
- CSA General Purpose
- Meets the EMC requirements as per NAMUR NE21
- Ex-Certification: ATEX Ex ia, CSA IS, FM IS
- Galvanic isolation 2 kV (input/output)
- Output simulation for quick and easy testing of the measurement loop

## 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. The standardized output signal is a 4 to 20 mA signal. Swift and easy operation, visualization and maintenance by PC using operating software. Space-saving DIN rail mounting as per 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

pc-programmable

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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

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

FM+CSA IS, NI I/1+2/ABCD

FM IS, NI I/1+2/ABCD

CSA IS, NI I/1+2/ABCD

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# iTEMP PCP TMT121



## Benefits:

- High accuracy in total ambient temperature range
- Fault signal on sensor break or short circuit, NAMUR NE 43 compliant
- Safe operation in hazardous areas - International approvals such as ATEX Ex ia, NEPSI, FM IS, CSA IS
- EMC to NAMUR NE 21, CE
- Online configuration during measurement
- Galvanic isolation
- Output simulation

## 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. The standardized output signal is a 4 to 20 mA signal. Swift and easy operation, visualization and maintenance by PC using operating software. Installation is realized on DIN rail as per 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

pc-programmable

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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

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# iTEMP PCP TMT181



## Benefits:

- High accuracy in total ambient temperature range
- Ex certification: ATEX Ex ia and dust ex zone 22 in compliance with EN 50281-1; FM IS; CSA IS
- Fault signal on sensor break or short circuit, NAMUR NE 43 compliant
- EMC to NAMUR NE 21, CE
- Configuration during measurement using configuration kit
- Galvanic isolation
- Output simulation
- 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. The standardized output signal used for process measurement is a 4 to 20 mA signal. 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

##### Output

1 x analog 4...20 mA

## Temperature transmitters

### Auxiliary power supply

8...35 V DC (standard-version)

8...30 V DC (Ex-version)

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### Communication

pc-programmable

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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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### Certification

UL Ex IS, 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 II3G Ex nA IIC T4/T5/T6

ATEX II1G EEx ia IIC T4/T5/T6

ATEX II3D

ATEX II1G EEx ia IIC T6, II3D

ATEX II3G Ex nA IIC T6, II3D

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

ABC

CSA General Purpose

EAC Ex ia IIC T6 Ga

GL (German Lloyd)

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