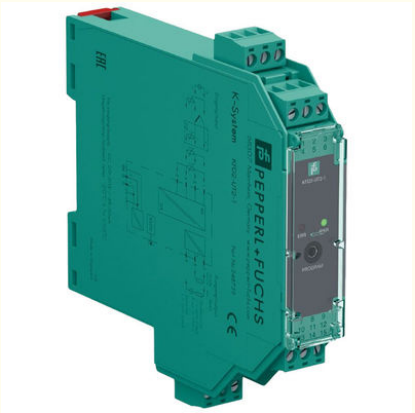
2 4 Wire PEPPERL FUCHS Universal Temperature Converter KFD2-UT2-1 Sink Source Mode

Our Product Introduction

Basic Information

- Place of Origin: Germany
- Brand Name: PEPPERL FUCHS
- Model Number: KFD2-UT2-1
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: carton
- Delivery Time: Negotiable
- Payment Terms: T/T
- Supply Ability: 100pcs per month



Product Specification

- Manufacturer: PEPPERL FUCHS
- Product No: KFD2-UT2-1
- Current Range: 0 ... 20 MA Or 4 ... 20 MA
- Lead Resistance: Max. 50 Ω Per Line
- Types Of Measuring: 2-, 3-, 4-wire Connection
- Connection Side: Field Side
- Power Dissipation: ≤ 0.98 W
- Highlight: **2 wire Universal Temperature Converter**, **4 wire Universal Temperature Converter**, **KFD2-UT2-1**

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Our Product Introduction

Product Description

PEPPERL FUCHS Universal Temperature Converter KFD2-UT2-1 Sink or source mode

General specifications
Signal type Analog input
Functional safety related parameters
Safety Integrity Level (SIL) SIL 2
Supply
Connection terminals 14+, 15- or power feed module/Power Rail
Rated voltage 20 ... 30 V DC
Ripple within the supply tolerance
Power dissipation ≤ 0.98 W
Power consumption max. 0.98 W
Interface
Programming interface programming socket
Input
Connection side field side
Connection terminals 1, 2, 3, 4
RTD type Pt10, Pt50, Pt100, Pt500, Pt1000 (EN 60751: 1995)
type Pt10GOST, Pt50GOST, Pt100GOST, Pt500GOST, Pt1000GOST (6651-94)
type Cu10, Cu50, Cu100 (P50353-92)
type Ni100 (DIN 43760)
Measuring current approx. 200 µA with RTD
Types of measuring 2-, 3-, 4-wire connection
Lead resistance max. 50 Ω per line
Measurement loop monitoring sensor breakage, sensor short-circuit
Thermocouples type B, E, J, K, N, R, S, T (IEC 584-1: 1995)
type L (DIN 43710: 1985)
type TXK, TXKH, TXA (P8.585-2001)
Cold junction compensation external and internal
Measurement loop monitoring sensor breakage
Potentiometer 0 ... 20 kΩ (2-wire connection), 0.8 ... 20 kΩ (3-wire connection)
Voltage selectable within the range -100 ... 100 mV
Input resistance ≥ 1 MΩ (-100 ... 100 mV)
Output
Connection side control side
Connection output I: terminal 7: source (-), sink (+), terminal 8: source (+), terminal 9: sink(-)
Output Analog current output
Current range 0 ... 20 mA or 4 ... 20 mA
Fault signal downscale 0 or 2 mA, upscale 21.5 mA (acc. NAMUR NE43)
Source load 0 ... 550 Ω
open-circuit voltage ≤ 18 V
Sink Voltage across terminals 5 ... 30 V. If the current is supplied from a source > 16.5 V,
series resistance of ≥ (V - 16.5)/0.0215 Ω is needed, where V is the source voltage.
The maximum value of the resistance is (V - 5)/0.0215 Ω.
Transfer characteristics
Deviation
After calibration Pt100: ± (0.06 % of measurement value in K + 0.1 % of span + 0.1 K (4-wire connection))
thermocouple: ± (0.05 % of measurement value in °C + 0.1 % of span + 1 K (1.2 K for types R and S)) , includes ± 0.8 K fault of the cold junction compensation (CJC)
mV: ± (50 µV + 0.1 % of span)
potentiometer: ± (0.05 % of full scale + 0.1 % of span, (excludes faults due to lead resistance))
Influence of ambient temperature Pt100: ± (0.0015 % of measurement value in K + 0.006 % of span)/K ΔTamb*)
thermocouple: ± (0.02 K + 0.005 % of measurement value in °C + 0.006 % of span)/K ΔTamb*)), influence of cold junction compensation (CJC) included
mV: ± (0.01 % of measurement value + 0.006 % of span)/K ΔTamb*)
potentiometer: ± 0.006 % of span/K ΔTamb*)
*) ΔTamb = ambient temperature change referenced to 23 °C (296 K)
Influence of supply voltage < 0.01 % of span
Influence of load ≤ 0.001 % of output value per 100 Ω
Reaction time worst case value (sensor breakage and/or sensor short circuit detection enabled)
mV: 1 s, thermocouples with CJC: 1.1 s, thermocouples with fixed reference temperature: 1.1 s, 3- or 4-wire RTD: 920 ms, 2-wire RTD: 800 ms, Potentiometer: 2.05 s

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