

ITXPlus

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16

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Germany

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www.weidmueller.com



Universal, output-current loop-powered ITX+ signal isolating converter: for measuring standardised DC voltage signals, DC current signals and temperature. The ITXPlus is a signal isolating converter that is compact (12.5 mm), programmable and electrically isolated. On the input side, you can connect DC-current/voltage signals, 2-, 3-, or 4-wire PT100s, and thermocouples. The ITX+ can also process signals from any non-linear resistance setpoint device, such as the NTC, PTC, or log. potentiometer. The appropriate characteristic is programmed in a configurable table containing up to 101 measured values.

The ITXPlus measures, filters and separates the input parameters. It converts them into a proportional signal from 4 - 20 mA.

Input signals and parameters can be configured using a PC and the in-house TSET software.

The CBX100 USB interface is used to connect to the PC.

General ordering data

Type	ITXPlus
Order No.	7940016563
Version	Signal converter/disconnector, -10...+20 mA (min. span 1 mA) , - 200...+ 2300 °C depending on thermocouple; - 10...+ 20 mA; - 5...+ 10 V
GTIN (EAN)	4032248565627
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Length	92.4 mm	Width	12.5 mm
Height	112.4 mm	Net weight	137 g

Temperatures

Humidity	10...90 % (no condensation)	Operating temperature	-10 °C...+70 °C
Storage temperature	-20 °C...+70 °C		

Probability of failure

MTTF	232 Years
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Input

Supply voltage	10...40 V DC, loop powered	Type	RTD, TC, DC (mA, V), Voltages (≤ 100 mV), Current input [mA], Thermocouple
Input current	-10...+20 mA (min. span 1 mA)	Input resistance, voltage	2 M Ω
Input resistance, current	40 Ω	Input voltage	-5...+10 V / -100...+200 mV (min. span 0.5 V / 4 mV)
Input signal	- 200...+ 2300 °C depending on thermocouple; - 10...+ 20 mA; - 5...+ 10 V		

Output

Type	Current output	load impedance current	typ. 700 Ω @ 24 V DC
Output current	4...20 mA		

General data

Configuration	T Set Software	Input/Output	Universal input
Long-term drift	0.1 % / 10.000 h	Mounting rail	TS 35
Step response time	Typ. 200 ms (10...90%)	Supply voltage	10...40 V DC, loop powered
Temperature coefficient	typ. 0.02 % / °C	Type of connection	Screw connection

Insulation coordination

EMC standards	DIN EN 61326	Impulse withstand voltage	4 kV (1.2/50 μ s)
Insulation voltage	2 kV input / output	Rated voltage	300 V _{eff}
Standards	DIN EN 50178, DIN EN 61326-1		

Classifications

ETIM 3.0	EC001774	UNSPSC	30-21-18-01
eClass 6.2	27-21-09-90	eClass 7.1	27-21-09-90

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Product information

Descriptive text accessories	CBX100 USB configuration adapter - 7940025031 Refer to Accessories for markers.
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Approvals

Approvals



ROHS	Conform
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Downloads

Package insert	instruction sheet.pdf
Software	TsetSetup_V4_33.zip
Declaration of Conformity	Declaration of Conformity.pdf
3-D model	

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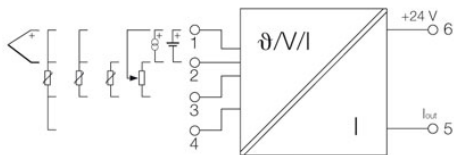
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Drawings

Electric symbol



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Drawings

