DATAFORTH[®]

DSCP62 Thermocouple-to-DC Current/Voltage Converter with Relay Output

Description

Each DSCP62 Thermocouple Converter provides a single channel of thermocouple input which is amplified, linearized and converted to a high-level current or voltage output. Thermocouple type, measurement range, filter, output type and range, and fault indication may be configured by dip-switch. An auxiliary relay output is provided to generate an alarm or act as a ther-mostat. Power can be applied directly to the converter's terminals or through a DIN rail mounted bus connector accessory, eliminating the need to wire power to each individual converter.

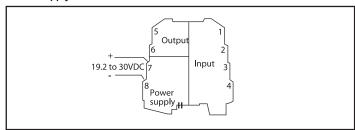


Features

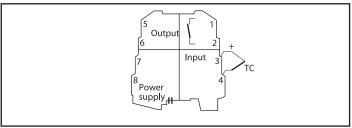
- Input: Thermocouple types J, K, E, N, S, R, B, T
- Output Current: 0 to 20, 4 to 20, 20 to 0, 20 to 4mA
- Output Voltage: 0 to 5, 1 to 5, 0 to 10, 10 to 0VDC
- Auxiliary Relay for Alarm or Control
- 1500Vrms Galvanic Isolation, 3-Way
- 19.2 to 30VDC Power
- Spring Cage Clamp Connection
- 14-Bit Resolution
- Better than ±0.1% Accuracy
- Configuration by Dip-Switch
- Compact 6.2mm DIN Housing
- CE Compliant

Electrical Connections

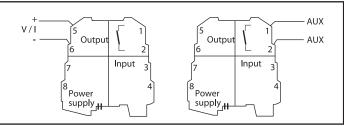
Power supply



Input



Output



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更多信息请联系 Dataforth 中国总代理:北京康泰电子有限公司, 010-62329030, www.quatronix-cn.com

DSCP

Specifications Typical[#] at $T_A = +25^{\circ}C$ and +24VDC loop power

Module	DSCP62
Input (selectable) Thermocouple Type EN 60584-1 Input Impedance	J, K, E, N, S, R, B, T Measurement range: Depends on thermo- couple type and dip-switch setting Span: 100°C (min) 10ΜΩ
Accuracy Cold Junction Error Thermal Drift A/D Conversion Processing Response Time, 90% Span (selectable) CMRR Isolation Dip-Switch Configuration Status Indicators (LED)	±0.1% (max) 1.5°C (max) <120ppm/°K 14-bit Floating point 32-bit <25ms (without filter), <55ms (with filter) >135dB, referred to power supply side 1500Vrms (1 minute), 3-Way Sets input and output ranges, sensor type, filter and faults Internal fault, configuration error, connection fault
Output (selectable) Current Current Output Protection Fault Output Voltage Auxiliary Relay Output	0 to 20, 4 to 20, 20 to 0 or 20 to 4mA Load resistance: 500Ω (max) 25mA (max) 102.5% or 105% of full-scale value in case of over-range 0 to 5, 1 to 5, 0 to 10 or 10 to 0VDC Load resistance: 2kΩ (min) Rated 60mA (max) at 24VAC
Power Supply Power Consumption Hot Swapping	19.2 to 30VDC <600mW (24mA at 24VDC) Yes
Mechanical Dimensions (w x h x d)	0.24" x 3.67" x 4.04" (6.2mm x 93.1mm x 102.5mm)
Housing	Terminal housing for mounting on 35mm DIN 46277
Connections	Spring cage clamp
Weight	1.6 ounces (46g)
Environmental Operating Temp. Range Storage Temp. Range Relative Humidity IP Protection Emissions Immunity	-20°C to +65°C -40°C to +85°C 0 to 90%, Noncondensing IP20 EN61000-6-4 EN61000-6-2

Ordering Information

Model	Description
DSCP62	Thermocouple Converter

Accessories

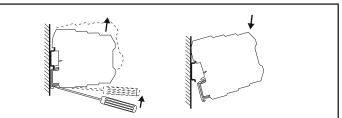
Model	Description
DSCX-02	DIN Rail Expandable Power-Bus Connector
DSCP70	Power Supply Connection Module
NOTEO	

NOTES:

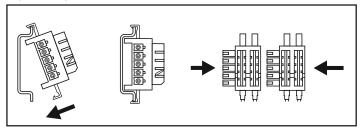
*Contact factory or your local Dataforth sales office for maximum values.

Installation

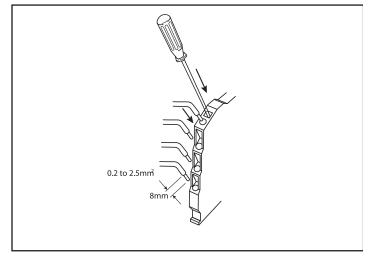
Inserting/extracting module on DIN guide



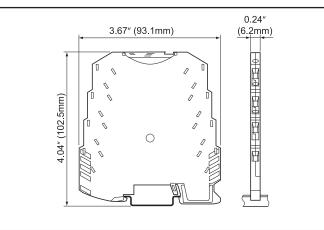
Expandable power-bus connector



Spring cage clamp connection



Dimensional Drawing



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