DATAFORTH[®]

CE

DSCP64 DC Voltage/Current Converter with Transducer Power Supply

Description

Each DSCP64 Voltage/Current Converter provides a single channel of voltage or current input which is converted to a current or voltage output. An auxiliary power supply is provided for powering the input transducer/ sensor. It is designed for industrial standard voltage or current signals. Input/output range, filter, fault indication, square root function and other functions may be configured by dip-switch. 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 Voltage: 0 to 5, 0 to 10, 1 to 5, 2 to 10VDC
- Input Current: 0 to 20, 4 to 20mA
- Output Voltage: 0 to 5, 0 to 10, 1 to 5, 2 to 10VDC
- Output Current: 0 to 20, 4 to 20, 20 to 0, 20 to 4mA
- 1500Vrms Galvanic Isolation, 4-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

Specifications Typical* at T₄ = +25°C and +24VDC loop power DSCP64 Module Input (selectable) 0 to 5, 1 to 5, 0 to 10, 2 to 10VDC Voltage $(\text{input } R = 110 \text{k}\Omega)$ 0 to 20, $\dot{4}$ to 20mA (input $\dot{R} = 35\Omega$) Current ±0.1% (max) Accuracy <120ppm/°K 14-bit Thermal Drift

Floating point 32-bit

<35ms (without filter), <74ms (with filter)

1500Vrms (1 minute), 3-Way

Sets input and output ranges, filter and faults

Internal fault, configuration error, connection fault

0 to 20, 4 to 20, 20 to 0 or 20 to 4mA

Load resistance: 500Q (max)

25mA

102.5% or 105% of full-scale value in case of over-range 0 to 5, 1 to 5, 0 to 10 or 2 to 10VDC

Load resistance: 2kΩ (min)

17 to 21VDC, 0 to 25mA

19.2 to 30VDC

23mA (max) at 24VDC with output at 20mA and auxiliary supply not used 45mA (max) at 24VDC with output at 21mA and auxilliary supply at 21mA

> EN61000-6-4 EN61000-6-2

A/D Conversion Processing Response Time, 90% Span, (selectable) İsolation **Dip-Switch Configuration** Status Indicators (LED)

Output (selectable) Current

Current Output Maximum Fault Output

Voltage

Auxiliary Power Supply

Power Supply Power Consumption

(w x h x d)

Connections

Emissions

Immunity

Housing

Weight

Yes **Mechanical Dimensions** 0.24" x 3.67" x 4.04" (6.2mm x 93.1mm x 102.5mm) Terminal housing for mounting on 35mm DIN 46277 Spring cage clamp 1.6 ounces (46g) Environmental Operating Temp. Range Storage Temp. Range -20°C to +65°C -40°C to +85°C Relative Humidity 0 to 90%, Noncondensing **IP** Protection IP20

Ordering Information

Model	Description
DSCP64	DC Voltage/Current Converter

Accessories

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

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



DSCP