

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.

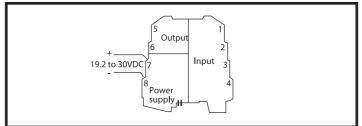


► Features

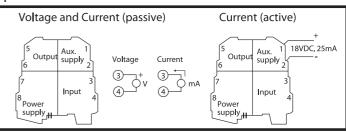
- Input Voltage: 0 to 5, 0 to 10, 1 to 5, 2 to 10VDC
- Input Current: 0 to 20, 4 to 20mA
- Output Voltage: 0 to 5, 0 to 10, 1 to 5, 2 to 10VDC
- Output Current: 0 to 20, 4 to 20, 20 to 0, 20 to 4mA
- 1500Vrms Galvanic Isolation, 4-Way
- 19.2 to 30VDC Power
- Spring Cage Clamp Connection
- 14-Bit Resolution
- Better than ±0.1% Accuracy
- Configuration by Dip-Switch
- Compact 6.2mm DIN Housing
- CE Compliant

Electrical Connections

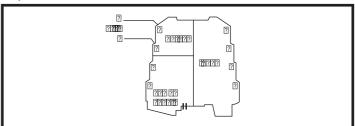
Power supply



Input



Output



For information call 800-444-7644

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Specifications Typical* at $T_A = +25$ °C and +24VDC loop power

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Module	DSCP64
Input (selectable)	
Voltage	0 to 5, 1 to 5, 0 to 10, 2 to 10VDC (input R = 110kΩ)
Current	0 to 20, 4 to 20mA (input R = 35Ω)
Accuracy	±0.1% (max)
Thermal Drift	<120ppm/°K
A/D Conversion	14-bit
Processing	Floating point 32-bit
Response Time, 90% Span, (selectable)	<35ms (without filter), <74ms (with filter)
Isolation	1500Vrms (1 minute), 3-Way
Dip-Switch Configuration	Sets input and output ranges, filter and faults
Status Indicators (LED)	Internal fault, configuration error, connection fault
Output (selectable)	
Current	0 to 20, 4 to 20, 20 to 0 or 20 to 4mA Load resistance: 500Ω (max)
Current Output Maximum	25mA
Fault Output	102.5% or 105% of full-scale value in case of over-range
Voltage	0 to 5, 1 to 5, 0 to 10 or 2 to 10VDC Load resistance: 2kΩ (min)
Auxiliary Power Supply	17 to 21VDC, 0 to 25mA
Power Supply	19.2 to 30VDC
Power Consumption	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
Hot Swapping	Yes
Environmental	
Operating Temp. Range	-20°C to +65°C
Storage Temp. Range	-40°C to +85°C
Relative Humidity	0 to 90%, Noncondensing
IP Protection	IP20
Emissions	EN61000-6-4
Immunity	EN61000-6-2
Mechanical Dimensions (w x h x d)	0.24" x 3.67" x 4.04"
Housing	(6.2mm x 93.1mm x 102.5mm) Terminal housing for mounting on 35mm DIN 46277
Connections	Spring cage clamp
Weight	1.6 ounces (46g)
0	

Ordering Information

Model	Description
DSCP64	DC Voltage/Current Converter

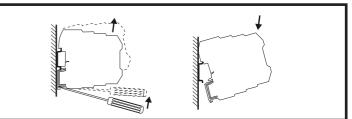
Accessories

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

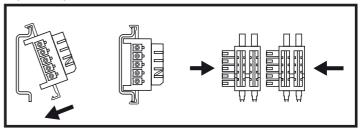
NOTES: * Contact factory or your local Dataforth sales office for maximum values.

Installation

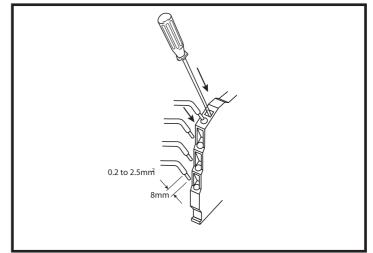
Inserting/extracting module on DIN guide



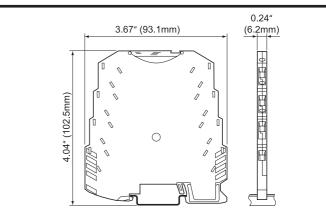
Expandable power-bus connector



Spring cage clamp connection



Dimensional Drawing



Visit our website www.dataforth.com

DSCP