

SCM 202

Industrial signal conditioner

Highlights

- Converting 0-500Vac to 4-20mA
- Galvanic isolation input and output
- Power supplied from current loop
- Monitoring current loop without interrupting it
- Span and zero adjustment
- Output overvoltage protection
- High linearity and temperature stability
- Short response time
- 35mm DIN rail mounting



Description

SCM 202 is a galvanic isolated transducer for 35mm DIN rail mounting that converts input – alternate voltage (0-500V AC), to 4-20mA current. Conversion is proportional and linear. Transducer is supplied from measurement loop since output connection (4/20mA current) is passive 2-wire. It is possible to adjust zero current and conversion span. By connecting voltmeter to test connectors it is possible to monitor loop current without interrupting it. SCM 202 signal conditioner is used for safe voltage measuring motors, pumps, heaters and other devices which are intended to use this voltage range.

Technical specification

Accuracy	±0.1% of full range, typical (for 2-100%) for sinusoidal input
Temperature stability	±0.02%/oC
Response time	220 ms (0-98%)
Output voltage ripple	0.1% of full range RMS
Frequency range	40-500Hz
Galvanic isolation	2.5KV RMS in 1 minute
Loop power supply	10-32VDCc
Output current	4-20mA
Test tap	40-200mV represents 4-20mA (shunt 10ohm ±1%)
Output over-voltage protection	33V tranzorb
Output over-current protection	slow fuse 100mA 20x5mm
Current loop resistance	$R_{max}(ohms)=(V_{supply}-10)/0.02$
Zero adjustment	±25% min
Span adjustment	±25% min
Operating temp. range	0-70 °C without condensation
Storage temp. range	-25 to 85 °C
Enclosure	plastic 35x89x71mm, IP50
Mounting	standard 35mm rail

DECODE d.o.o.

Bulevar Nikole Tesle 30A

11080 Belgrade, Serbia

Tel: +381 11 311 0027

E-mail: office@decode.rs

www.decode.rs

Legal notice

Reproduction, transfer, distribution or storage of part or all of the contents in this document in any form without the prior written permission is prohibited. All rights reserved. All trademarks mentioned herein belong to their respective owners.

Copyright © 2018 Decode

Disclaimer

Decode has used reasonable care in preparing the information included in this document, but does not warrant that such information is error free.

Decode, its associates, representatives, employees, and others acting on its behalf disclaim any and all liability for errors, inaccuracies, or incompleteness contained in any datasheet or in any other disclosure relating to any product.

In the interest of continuous product development, the Decode reserves the right to make improvements to this manual and the products described in it at any time and without prior notification or obligation.

The use of the product is at sole discretion of the user. Decode cannot be held responsible for any damages arising due to use of this product and makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product.

Note: The specifications in this document are valid as of the listed versions of software and/or hardware. Revised versions of this document, as well as software and driver updates are available in the download area of the Decode web site.