

DIN Rail Temperature Transmitter



DS3016

Features:

- PT100 (3 types), Ni100, Ni120, Cu100, 10-400 ohm
- Simple push button configuration
- Advanced user configuration for access to 56 pre-set temperature ranges
- User push button trim
- 4-20mA output



Description:

The GEN213/P is a cost effective "smart" DIN rail mount transmitter that accepts resistance temperature sensors and converts sensor output over a configured range to a standard industrial 4-20mA transmission signal.

A simple push button operation allows the user to select RTD type, burnout direction, fixed ranges and trim 4 and 20mA points.

The GEN213/P transmitter incorporates the latest digital technology to ensure accurate drift free performance.

If required the desired range can be specified at the time of order, removing the need for user configuration. If the range is not specified then the transmitter will be supplied at the default range of 0-100°C type PT100 IEC.

Sensor	Range (°C)	Accuracy
PT100 IEC 0.003851	-200-850	±0.2°C + (±0.05% of reading)
PT100 IPTS-68 0.00391	-200-630	
PT100 IPTS-68 0.00392		
Ni100 DIN 0.00618	-60-180	
Ni120 DIN 0.00672	-80-260	
Cu100 0.00427		
Cu53	-50-180	
	Range (ohm)	
Ohms	10-400	±0.01% FSR



General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

TT Electronics | Roxspur Measurement & Control
2 Downgate Drive, Sheffield, South Yorkshire, S4 8BT, UK | Ph: +44 (0) 114-244-2521
www.ttelectronics.com | RoxspurSales@ttelectronics.com

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Sensor Burnout	Either up or down scale output
Stability	±RTD 0.005% FSR/°C ±Ohms 0.025% FSR/°C
OUTPUT	
Output Type	2 wire 4-20mA current loop
Output Range	4-20mA
Output Connection	Screw terminal
Max Output	21.5mA (in high burnout conditions)
Min Output	<3.9mA (in low burnout conditions)
Accuracy	(mA output / 2000) or 5µA (whichever is greater)
Loop Voltage Effect	±0.2µA/V
Thermal Drift	±1µA/°C typically ±1.5µA
Max Output Load	$[(V_{\text{supply}} - 10)/21]$ K ohms (E.g. 700 ohms @ 24V)
APPROVALS	
EMC - BS EN 61326:1998	Electrical equipment for measurement control and laboratory use.
Annex A	Immunity test requirements for equipment intended for use in industrial locations.
Annex F	Test configurations, operational conditions and performance criteria for transducers with integrated or remote signal conditioning.
IEC 61000-4-2	Electrostatic discharge
IEC 61000-4-3	EM Field
IEC 61000-4-4	Transient Burst (output)
IEC 61000-4-5	Surge (output)

NB: Sensor input wires to be less than 3 meters to comply.

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