

DRF-PR Process Input Signal Conditioner

All Models



- **Process Signals Up to** 10 Vdc and Up to 50 mA
- Accuracy 0.2%
- Response Time <70 ms Excitation Voltage for
- Transducers +15 Vdc (20 mA)
- **Galvanic Isolation Between** Input, Output, and Power

The DRF-PR signal conditioner accepts a DC process signal input and provides an isolated 0 to 10 Vdc or 4 to 20 mA output. Models are available with three different power options; 24 Vdc, 115 Vac, and 230 Vac.

The DRF-PR is ideally suited for industrial applications. All models mount on a standard 35 mm DIN rail and provide galvanic isolation between input, output, and power up to 3500 Veff (model specific). Module response time is 70 ms

Specifications

Accuracy: <0.2% full scale Linearity: <0.1% full scale Thermal Drift: 150 ppm/°C typical

(max <200 ppm/°C)

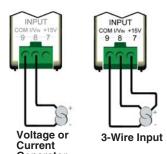
Response Time (DC Signal Input Models): <70 ms (90% of signal)

at 20 Hz -3 dB

Input Impedance: 50 Ω for 4 to 20 mA and 0 to 20 mA ranges, 20 Ω for 0 to 5 mA and 0 to 50 mA ranges, 5 M Ω for ranges \geq 1 V, 1 M Ω for ranges \geq 10 V

Vexc Output for Transducers: +15 Vdc ±10% (22 mA max)





Range Code Table

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Range Code	Range		
0/5MA	0 to 5 mA		
0/50MA	0 to 50 mA		
0/20MA	0 to 20 mA		
4/20MA	4 to 20 mA		
0/1VDC	0 to 1 Vdc		
0/10VDC	0 to 10 Vdc		



DRF-PR-24VDC-0/10C-4/20, £114, shown larger than actual size

Impedance and Overvoltage Table

Range Code	Impedance	Overvoltage (max) 3.5 Vdc			
4 to 20 mA	50 Ω				
0 to 20 mA	50 Ω	3.5 Vdc			
0 to 50 mA	20 Ω	2.5 Vdc			
0 to 5 mA	20 Ω	2.5 Vdc			
0 to 10 Vdc	5 M Ω	150 Vdc			
0 to 1 Vdc	1 ΜΩ	15 Vdc			



AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)			
Model No.	Price	Description	
DRF-PR-(*)-(**)-(***)	£114	Signal conditioner for DC process input	
CS-3790	13.50	Reference Book: McGraw-Hill Dictionary of Electrical and Computer Engineering	_

* Specify power: "24VDC" for 24 Vdc power, "115VAC" for 115 Vac power

or "230VAC" for 230 Vac power.

*** Specify range code from the Range Code Table.

*** Specify output: "4/20" for 4 to 20 mA output or "0/10" for 0 to 10 Vdc output.

Ordering Example: DRF-PR-24VDC-0/10VDC-4/20, signal conditioner for process input with a 0 to 10 Vdc input range, 4 to 20 mA output and 24 Vdc power, £114.

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