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Find the *OMEGA DRF-TCK* at our website: *Click HERE*

Thermocouple Input Signal Conditioner
DRF-TC

1 YEAR WARRANTY CE

- **Models for J, K, E, T, R and S Thermocouples**
- **Accuracy 0.3%**
- **250 ms Response Time**
- **Upscale Break Protection**
- **Linearized Output**
- **Galvanic Isolation Between Input, Output and Power**

The DRF-TC thermocouple signal conditioners accept thermocouple input and provide a linearized and isolated 0 to 10 Vdc or 4 to 20 mA output. Models are available with three different power options, 24Vdc, 120 Vac and 240 Vac. The DRF-TC are 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). To insure maximum measurement accuracy the units feature cold junction compensation, 0.2% linearity and less than 0.1˚C/1˚C thermal drift due to compensation. Module response time is 250 ms or less.



DRF-TCJ-115VAC-0/400C-4/20, shown larger than actual size

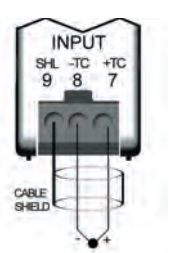
Range Code Table

Range Code	Range	J	K	T	E	R	S
0/100C	0 to 100°C				X		
0/150C	0 to 150°C	X	X				
0/175C	0 to 175°C				X		
0/200C	0 to 200°C			X			
0/250C	0 to 250°C	X	X				
0/300C	0 to 300°C			X	X		
0/400C	0 to 400°C	X	X	X			
0/500C	0 to 500°C				X		
0/700C	0 to 700°C	X	X				
0/800C	0 to 800°C				X		
0/1200C	0 to 1200°C		X				
0/1600C	0 to 1600°C						X
850/1700C	850 to 1700°C					X	
Minimum Span*		85°C	85°C	100°C	85°C	100°C	100°C

** Custom ranges may be obtained by adjusting on-board zero and span potentiometers. The minimum range is limited by the minimum span specification.*

Specifications

Accuracy: <0.3% full scale
Linearity: <0.2% full scale
Thermal Drift: <250 ppm/°C typical
Thermocouple CJC Drift: 0.1°C/°C
Response Time: <250mS (90% of signal)
Input Impedance: 1 M‰
Over Voltage Protection: 10 V



Thermocouple probe types: J, K, E, T, R, S (one model for each thermoucouple type

Thermocouple Input

ALL MODELS AVAILABLE FOR FAST DELIVERY!

To Order *(Specify Model Number)*		
Model No.		**Description**
DRF-TCJ-(*)-(**)-(***)		Signal conditioner for J type thermocouple
DRF-TCK-(*)-(**)-(***)		Signal conditioner for K type thermocouple
DRF-TCT-(*)-(**)-(***)		Signal conditioner for T type thermocouple
DRF-TCE-(*)-(**)-(***)		Signal conditioner for E type thermocouple
DRF-TCR-(*)-(**)-(***)		Signal conditioner for R type thermocouple
DRF-TCS-(*)-(**)-(***)		Signal conditioner for S type thermocouple
CS-3767		Reference Book: Electrical Engineers Handbok

** Specify Power, 24 Vdc for 24 Vdc power, 115 Vac for 115 Vac power or 230 Vac for 230 Vac power*
*** Specify range code from the Input Range Table*
**** Specify output, 4/20 for 4 to 20 mA output or 0/10 for 0 to 10 Vdc output*
***Ordering Example: DRF-TCJ-115VAC-0/400C-4/20,** signal conditioner for a J thermocouple with a 0 to 400°C input range, 4 to 20 mA output and 115 Vac power,*

Artisan Technology Group is an independent supplier of quality pre-owned equipment

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