

# Temptran™ Temperature Ranges

The endpoints of the temperature range correspond to the Temptran's 4 and 20 mA signals. Choose the smallest possible span for best accuracy. Be sure to check the temperature limits of the sensor you specify.

New ranges are available for a small setup charge.

Minco sets the range for each Temptran using high-quality fixed resistors, then finely calibrates them with high resolution multi-turn zero and span potentiometers. Because the potentiometers represent only 5% of span, Minco Temptrons are much less susceptible than other transmitters to drift caused by vibration and temperature change.

Range Code	°F Temperature Range		°C Temperature Range		TT110, TT111, TT115, TT210, TT211, TT829		TT176, TT246, TT220	TT190, TT221	TT205
	4 mA	20 mA	4 mA	20 mA	Platinum elements	Other elements	Elements	T/CTypes	T/CTypes
DC	-328	-238	-200.0	-150.0	PA PB PD PE				
YL	-328	-202	-200.0	-130.0	PA PB PD PE				
MH	-328	-148	-200.0	-100.0	PA PB PD PE				
YR	-328	-148	-200.0	-100.0	PA PB PD PE				
LC	-328	-58	-200.0	-50.0					T
TN	-328	32	-200.0	0.0			PA PB PD PE		
UH	-328	122	-200.0	50.0					
MC	-328	149	-200.0	65.0	PF PW		PA PB PD PE		
DH	-328	212	-200.0	100.0	PA PB PD PE		PA PB PD PE		
GD	-328	392	-200.0	200.0	PA PB PD PE				
HG	-325	100	-198.3	37.8	PA PB PD PE PF PW			JT	
XW	-310	1,832	-190.0	1,000.0				K	
KE	-301	-139	-185.0	-95.0	PA PB PD PE				
QS	-300	150	-184.4	65.6			PA PB PD PE		
JY	-300	300	-184.4	148.9			PA PB PD PE		
SM	-280	-180	-173.3	-117.8			PA PB PD PE		
TM	-274	-202	-170.0	-130.0	PF PW				
TG	-256	-184	-160.0	-120.0	PA PB PD PE				
JN	-250	0	-156.7	-17.8	PA PB PD PE				
UT	-238	-58	-150.0	-50.0	PA PB PD PE				
GY	-211	32	-135.0	0.0	PA PB PD PE				
WM	-211	95	-135.0	35.0					
MB	-202	149	-130.0	65.0			PA PB PD PE	T	
JQ	-200	-50	-128.9	-45.6					
KD	-185	-95	-120.6	-70.6	PA PB PD PE				
QM	-184	95	-120.0	35.0			PA PB PD PE		
LY	-180	0	-117.8	-17.8				T	
SZ	-150	-50	-101.1	-45.6	PA PB PD PE				
YN	-150	0	-101.1	-17.8	PA PB PD PE				
WP	-150	50	-101.1	10.0	PA PB PD PE				
TF	-148	-76	-100.0	-60.0	PA PB PD PE				
AT	-148	-40	-100.0	-40.0	PA PB PD PE PF PW				
EZ	-148	32	-100.0	0.0	PA PB PD PE PF PW		PA PB PD PE		
SE	-148	95	-100.0	35.0	PF PW				
TK	-148	122	-100.0	50.0	PA PB PD PE PF PW				
LN	-148	212	-100.0	100.0	PA PB PD PE				
UZ	-148	257	-100.0	125.0				K	
QT	-148	500	-100.0	260.0	PA PB PD PE	NA			
MV	-148	572	-100.0	300.0				J	
SA	-140	100	-95.6	37.8			PA PB PD PE		
XT	-121	32	-85.0	0.0					
QU	-120	-40	-84.4	-40.0	PF PW				
EB	-120	60	-84.4	15.6	PA PB PD PE				
SC	-120	100	-84.4	37.8	PA PB PD PE	FA		J	
HP	-110	200	-78.9	93.3	PA PB PD PE		PA PB PD PE		
GG	-103	122	-75.0	50.0	PA PB PD PE		PA PB PD PE		
UL	-103	752	-75.0	400.0				K	
SK	-100	0	-73.3	-17.8	PA PB PD PE				

▲ Additional ranges are available. Call Mod-Tronic for details.

**MOD-TRONIC**  
INSTRUMENTS LIMITED

1 Delta Park Blvd, #12 Brampton, ON L6T 5G1  
Tel 905-457-6322 or 1-800-794-5883  
Fax 905-457-4716 or 1-800-830-7122  
sales@mod-tronic.com www.mod-tronic.com

Range Code	°F Temperature Range		°C Temperature Range		TT110, TT111, TT115, TT210, TT211, TT829		TT176, TT246, TT220	TT190, TT221	TT205
	4 mA	20 mA	4 mA	20 mA	Platinum elements	Other elements	Elements	T/CTypes	T/CTypes
SB	-100	100	-73.3	37.8	PA PB PD PE			J	
LP	-100	250	-73.3	121.1			PA PB PD PE		K
QF	-100	400	-73.3	204.4				K	
TH	-100	600	-73.3	315.6	PA PB PD PE				
JB	-99	1	-72.8	-17.2	PA PB PD PE				
TR	-94	158	-70.0	70.0			PA PB PD PE		
LD	-90	90	-67.8	32.2	PA PB PD PE		PA PB PD PE	J	
WS	-90	600	-67.8	315.6					
ET	-85	32	-65.0	0.0	PA PB PD PE PF PW				
WF	-79	392	-62.0	200.0	PA PB PD PE				
XA	-75	100	-59.4	37.8	PA PB PD PE				
XG	-67	392	-55.0	200.0				K	
XF	-67	662	-55.0	350.0				K	
XE	-67	2,192	-55.0	1,200.0				K	
AR	-60	10	-51.1	-12.2	PA PB PD PE	FB	PA PB PD PE		
UM	-60	60	-51.1	15.6	PA PB PD PE				
WR	-60	100	-51.1	37.8					
BO	-60	120	-51.1	48.9	PA PB PD PE		PA PB PD PE		
SS	-60	210	-51.1	98.9					J
XU	-58	32	-50.0	0.0					
MZ	-58	77	-50.0	25.0	PA PB PD PE				
M	-58	122	-50.0	50.0	PA PB PD PE PF PW		PA PB PD PE		
EO	-58	212	-50.0	100.0	PA PB PD PE	NA	PA PB PD PE	T	ET
JD	-58	302	-50.0	150.0	PA PB PD PE		PA PB PD PE	J	
TE	-58	392	-50.0	200.0			PA PB PD PE		
MR	-58	500	-50.0	260.0			PA PB PD PE CA NA		
Y	-50	50	-45.6	10.0	PA PB PD PE PF PW	FB FC	PA PB PD PE		
SD	-50	100	-45.6	37.8	PA PB PD PE				
MI	-50	150	-45.6	65.6	PA PB PD PE		PA PB PD PE	T	
QY	-50	250	-45.6	121.1	PA PB PD PE	ND	ND		
AI	-50	275	-45.6	135.0	PA PB PD PE PF PW	FB FC FL NA	PA PB PD PE		
MS	-50	650	-45.6	343.3	PA PB PD PE		PA PB PD PE		
TL	-40	32	-40.0	0.0	PF PW				
WT	-40	50	-40.0	10.0	PA PB PD PE				
DG	-40	85	-40.0	29.4	PA PB PD PE	FB FC	PA PB PD PE		
MU	-40	86	-40.0	30.0	PA PB PD PE				
SI	-40	104	-40.0	40.0	PA PB PD PE				
AD	-40	120	-40.0	48.9	PA PB PD PE	FB FC	PA PB PD PE		
UJ	-40	130	-40.0	54.4			PA PB PD PE		
AK	-40	140	-40.0	60.0	PA PB PD PE PU		PA PB PD PE		
BE	-40	160	-40.0	71.1	PA PB PD PE	FB	PA PB PD PE		
UC	-40	176	-40.0	80.0	PA PB PD PE				
WU	-40	200	-40.0	93.3					
GH	-40	212	-40.0	100.0	PA PB PD PE		PA PB PD PE		
WJ	-40	240	-40.0	115.6	PF PW				
TY	-40	248	-40.0	120.0	PA PB PD PE PF PW				
WB	-40	257	-40.0	125.0	PF PW				
UE	-40	302	-40.0	150.0	PA PB PD PE				
EX	-40	482	-40.0	250.0	PA PB PD PE		PF PW		
UP	-40	500	-40.0	260.0					K
EP	-32	122	-35.6	50.0	PA PB PD PE PF PW				
JR	-32	150	-35.6	65.6			PA PB PD PE		
XK	-32	160	-35.6	71.1	PF				
QA	-30	50	-34.4	10.0	PA PB PD PE PF PW	NA	PA PB PD PE		
EQ	-30	60	-34.4	15.6					
EL	-30	80	-34.4	26.7					

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Range Code	°F Temperature Range		°C Temperature Range		TT110, TT111, TT115, TT210, TT211, TT829		TT176, TT246, TT220	TT190, TT221	TT205
	4 mA	20 mA	4 mA	20 mA	Platinum elements	Other elements	Elements	T/CTypes	T/CTypes
L	-30	120	-34.4	48.9	PA PB PD PE PF PW	FB FC			
AS	-30	130	-34.4	54.4	PA PB PD PE PF PW	FB	PA PB PD PE		
R	-30	150	-34.4	65.6	PA PB PD PE	FB FC	PA PB PD PE		
DR	-30	212	-34.4	100.0	PA PB PD PE	FC			
QD	-30	220	-34.4	104.4			PA PB PD PE		
LJ	-30	240	-34.4	115.6	PA PB PD PE	FC		T	
YW	-30	250	-34.4	121.1					
BG	-30	500	-34.4	260.0	PA PB PD PE PF PW				
WV	-25	80	-31.7	26.7	PA PB PD PE				
MT	-25	125	-31.7	51.7	PA PB PD PE		PA PB PD PE		
TT	-25	130	-31.7	54.4			PA PB PD PE		
YH	-22	32	-30.0	0.0	PA PB PD PE				
TD	-22	68	-30.0	20.0	PA PB PD PE				
BC	-22	86	-30.0	30.0	PA PB PD PE		PA PB PD PE		
YS	-22	104	-30.0	40.0			PA PB PD PE		
DN	-22	122	-30.0	50.0	PA PB PD PE		PA PB PD PE		
UN	-22	130	-30.0	54.4			PA PB PD PE		
TQ	-22	158	-30.0	70.0	PA PB PD PE				
ES	-22	212	-30.0	100.0	PA PB PD PE		PA PB PD PE		
EE	-22	302	-30.0	150.0	PA PB PD PE		PA PB PD PE		
ER	-22	320	-30.0	160.0	PA PB PD PE				
YC	-20	35	-28.9	1.7					
XD	-20	75	-28.9	23.9			PA PB PD PE		
DO	-20	120	-28.9	48.9	PA PB PD PE PF PW	ND	PA PB PD PE		
TA	-20	130	-28.9	54.4			PA PB PD PE		
EN	-20	140	-28.9	60.0	PA PB PD PE PF PW	FB	PA PB PD PE		
B	-20	180	-28.9	82.2	PA PB PD PE	FB FC NA	PA PB PD PE CA		
GC	-20	200	-28.9	93.3					
TU	-20	250	-28.9	121.1					K
WN	-20	320	-28.9	160.0	PA PB PD PE				
UB	-20	350	-28.9	176.7					T
GI	-13	32	-25.0	0.0	PA PB PD PE				
GO	-13	122	-25.0	50.0	PA PB PD PE		PA PB PD PE		
G	-10	40	-23.3	4.4	PA PB PD PE PF PW		PA PB PD PE		
I	-10	90	-23.3	32.2	PA PB PD PE PF PW	FB			
WK	-10	130	-23.3	54.4			PA PB PD PE		
JX	-10	250	-23.3	121.1	PA PB PD PE				K
SW	-5	130	-20.6	54.4			PA PB PD PE		
MA	-4	68	-20.0	20.0			PA PB PD PE		
BP	-4	104	-20.0	40.0	PA PB PD PE	FC	PA PB PD PE		
SH	-4	122	-20.0	50.0	PA PB PD PE				
DB	-4	212	-20.0	100.0	PA PB PD PE		PA PB PD PE		
YZ	-4	248	-20	120	PA PB PD PE				
XY	-4	320	-20.0	160.0			PA PB PD PE		
MN	0	50	-17.8	10.0	PA PB PD PE PF PW				
JZ	0	65	-17.8	18.3	PA PB PD PE		PA PB PD PE		
KV	0	70	-17.8	21.1					
QX	0	80	-17.8	26.7	PA PB PD PE				
S	0	100	-17.8	37.8	PA PB PD PE PF PG PW	FB	PA PB PD PE PW		
JH	0	120	-17.8	48.9	PA PB PD PE PF PW	FC	PA PB PD PE		
HD	0	130	-17.8	54.4	PA PB PD PE PF PW		PA PB PD PE		
DV	0	150	-17.8	65.6	PA PB PD PE	FB	PA PB PD PE		
EI	0	160	-17.8	71.1	PA PB PD PE				
AC	0	200	-17.8	93.3	PA PB PD PE PF PW	FB NA	PA PB PD PE CA	EJKT	T
KJ	0	240	-17.8	115.6	PA PB PD PE PF PW		PA PB PD PE CA		
EY	0	250	-17.8	121.1	PA PB PD PE PF PW	NA	PA PB PD PE	JK	JKT
KA	0	255	-17.8	123.9	PA PB PD PE				
WA	0	275	-17.8	135.0			PA PB PD PE		

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	4 mA	20 mA	4 mA	20 mA	Platinum elements	Other elements	Elements	T/CTypes	T/CTypes
LG	0	280	-17.8	137.8			PA PB PD PE	J	
AN	0	300	-17.8	148.9	PA PB PD PE PF PW	FB FC NA	PA PB PD PE CA NA	EJKT	K
JA	0	350	-17.8	176.7	PA PB PD PE		PA PB PD PE	KJ	
DS	0	400	-17.8	204.4	PA PB PD PE	NA	PA PB PD PE CA NA	JK	
US	0	410	-17.8	210.0	PA PB PD PE				
AG	0	500	-17.8	260.0	PA PB PD PE PF PW	NA	PA PB PD PE CA	EJT	JKT
QN	0	550	-17.8	287.8	PA PB PD PE		PA PB PD PE		
AB	0	600	-17.8	315.6	PA PB PD PE PF PW	NA	PA PB PD PE	EJK	J
QI	0	700	-17.8	371.1	PA PB PD PE		PA PB PD PE		
AA	0	800	-17.8	426.7	PA PB PD PE PF PW		PA PB PD PE	J	JK
BZ	0	1,000	-17.8	537.8	PA PB PD PE		PA PB PD PE	JK	EJ
KX	0	1,200	-17.8	648.9	PA PB PD PE		PA PB PD PE		
HU	0	1,300	-17.8	704.4				K	
JT	0	1,400	-17.8	760.0				JK	J
JC	0	1,500	-17.8	815.6	PA PB PD PE		PA PB PD PE	K	
LW	0	1,600	-17.8	871.1					
WQ	0	1,652	-17.8	900.0				K	
KC	0	1,750	-17.8	954.4				K	K
UQ	0	1,850	-17.8	1,010.0					K
KZ	0	2,000	-17.8	1,093.3				K	
LV	0	2,400	-17.8	1,315.6				K	
KS	5	275	-15.0	135.0	PA PB PD PE				
KR	5	302	-15.0	150.0	PA PB PD PE		PA PB PD PE		
XM	10	35	-12.2	1.7			PA PB PD PE		
BM	10	60	-12.2	15.6	PA PB PD PE		PA PB PD PE		
HB	10	70	-12.2	21.1	PA PB PD PE PF PW		PA PB PD PE		
LH	10	90	-12.2	32.2	PA PB PD PE				
TS	10	130	-12.2	54.4			PA PB PD PE		
HO	10	190	-12.2	87.8	PA PB PD PE			J	
YT	14	68	-10.0	20.0	PF PW				
YJ	14	86	-10.0	30.0	PA PB PD PE				
BY	14	104	-10.0	40.0	PA PB PD PE		PA PB PD PE		
AJ	14	122	-10.0	50.0	PA PB PD PE		PA PB PD PE		
UD	14	212	-10.0	100.0	PA PB PD PE				
GL	14	230	-10.0	110.0	PA PB PD PE				
EA	15	65	-9.4	18.3	PA PB PD PE PF PW				
GB	15	85	-9.4	29.4	PA PB PD PE PF PW				
TV	15	130	-9.4	54.4			PA PB PD PE		
TB	17	130	-8.3	54.4			PA PB PD PE		
XN	20	45	-6.7	7.2			PA PB PD PE		
GT	20	50	-6.7	10.0			PA PB PD PE		
AP	20	70	-6.7	21.1	PA PB PD PE PF PW		PA PB PD PE		
KW	20	80	-6.7	26.7	PA PB PD PE		PA PB PD PE		
GV	20	100	-6.7	37.8	PA PB PD PE PF PW		PA PB PD PE		
A	20	120	-6.7	48.9	PA PB PD PE PF PW	FA FB FC NA	PA PB PD PE PF		
UG	20	130	-6.7	54.44			PA PB PD PE		
SN	20	140	-6.7	60.0			PA PB PD PE		
ST	20	170	-6.7	76.7	PA PB PD PE				
HE	20	240	-6.7	115.6	PA PB PD PE				
AF	20	320	-6.7	160.0	PA PB PD PE	FA FB			
GR	21	120	-6.1	48.9	PF PW				
QE	22	122	-5.6	50.0	PA PB PD PE				
QK	22	212	-5.6	100.0	PA PB PD PE				
XL	23	59	-5.0	15.0			PA PB PD PE		
GJ	23	68	-5.0	20.0					
XV	23	95	-5.0	35.0					

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	4 mA	20 mA	4 mA	20 mA	Platinum elements	Other elements	Elements	T/CTypes	T/CTypes
GW	23	131	-5.0	55.0	PA PB PD PE				
MO	25	75	-3.9	23.9	PA PB PD PE PF PW				
DY	25	100	-3.9	37.8	PA PB PD PE		PA PB PD PE		
SU	25	140	-3.9	60.0			PA PB PD PE		
SY	26	130	-3.3	54.4			PA PB PD PE		
SF	30	50	-1.1	10.0			PA PB PD PE		
U	30	80	-1.1	26.7	PA PB PD PE PF PW	FB FC	PA PB PD PE		
DA	30	90	-1.1	32.2	PA PB PD PE PF PW	FC	PA PB PD PE		
DP	30	100	-1.1	37.8	PA PB PD PE PF PW				
EK	30	110	-1.1	43.3	PA PB PD PE PF PW				
HC	30	120	-1.1	48.9	PA PB PD PE PF PW				
BI	30	130	-1.1	54.4	PA PB PD PE PF PW		PA PB PD PE PF PW		
DQ	30	150	-1.1	65.6	PA PB PD PE	FB	PA PB PD PE		
KK	30	180	-1.1	82.2	PA PB PD PE				
EV	30	230	-1.1	110.0	PA PB PD PE		PA PB PD PE		
BN	30	240	-1.1	115.6	PA PB PD PE PF PW	FB	PA PB PD PE		
BJ	30	250	-1.1	121.1	PA PB PD PE PF PW	NA	PA PB PD PE FA		
GP	30	260	-1.1	126.7					
LR	30	300	-1.1	148.9	PA PB PD PE				
GN	30	350	-1.1	176.7					
JI	32	50	0.0	10.0			PA PB PD PE		
LS	32	68	0.0	20.0			PA PB PD PE		
YG	32	75	0.0	23.9	PA PB PD PE				
SJ	32	77	0.0	25.0			PA PB PD PE		
WE	32	86	0.0	30.0	PF PW				
GQ	32	100	0.0	37.8	PA PB PD PE PF PW		PA PB PD PE		
EG	32	104	0.0	40.0	PA PB PD PE PF PW		PA PB PD PE		
N	32	122	0.0	50.0	PA PB PD PE PF PW	FB FC	PA PB PD PE		
YQ	32	130	0.0	54.4			PA PB PD PE		
HL	32	167	0.0	75.0	PA PB PD PE		PA PB PD PE		
YD	32	176	0.0	80.0					
XR	32	176	0.0	80.0	PA PB PD PE				
ML	32	182	0.0	83.3					
MD	32	200	0.0	93.3			NA		
C	32	212	0.0	100.0	PA PB PD PE PF PW	FB FC NA	PA PB PD PE CA NA	JT	
MQ	32	248	0.0	120.0			PA PB PD PE		
QR	32	257	0.0	125.0	PA PB PD PE				
DL	32	280	0.0	137.8	PA PB PD PE		PA PB PD PE		
J	32	302	0.0	150.0	PA PB PD PE PF PU PW	FC NA	PA PB PD PE CA	J	J
TZ	32	320	0.0	160.0					
LK	32	350	0.0	176.7				K	
UA	32	356	0.0	180.0					
K	32	392	0.0	200.0	PA PB PD PE PU	NA	PA PB PD PE CA	JK	J
LX	32	400	0.0	204.4	PA PB PD PE				
BW	32	482	0.0	250.0	PA PB PD PE	NA	PA PB PD PE	EJKT	J
UK	32	550	0.0	287.8			PW		
LF	32	572	0.0	300.0	PA PB PD PE		PA PB PD PE	JT	
EU	32	662	0.0	350.0	PA PB PD PE		PA PB PD PE	J	
GE	32	752	0.0	400.0	PA PB PD PE PF PW		PA PB PD PE	JK	
JW	32	932	0.0	500.0	PA PB PD PE		PA PB PD PE	JK	K
HA	32	1,112	0.0	600.0	PA PB PD PE PF PW			K	
JM	32	1,400	0.0	760.0				J	
GF	32	1,472	0.0	800.0	PA PB PD PE		PA PB PD PE	K	K
HR	32	1,652	0.0	900.0				K	K
QC	32	1,832	0.0	1,000.0				K	
MW	32	2,012	0.0	1,100.0					
MG	32	2,100	0.0	1,148.9					K
JF	32	2,192	0.0	1,200.0					

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	4 mA	20 mA	4 mA	20 mA	Platinum elements	Other elements	Elements	T/C Types	T/C Types
JG	32	2,912	0.0	1,600.0					
SG	33.8	123.8	1.0	51.0	PA PB PD PE				
WC	34	80	1.1	26.7					
XC	34	140	1.1	60.0			PA PB PD PE		
HJ	35	65	1.7	18.3			PA PB PD PE		
KU	35	80	1.7	26.7					
JL	35	100	1.7	37.8			PA PB PD PE		
MF	35	120	1.7	48.9	PA PB PD PE				
XS	35	130	1.7	54.4			PA PB PD PE		
DD	35	140	1.7	60.0	PA PB PD PE		PA PB PD PE		
HM	35	700	1.7	371.1				J	
JK	40	60	4.4	15.6			PA PB PD PE		
ME	40	85	4.4	29.4					
H	40	90	4.4	32.2	PA PB PD PE PF PW	FB	PA PB PD PE		
BU	40	100	4.4	37.8	PA PB PD PE PF PW				
KN	40	110	4.4	43.3	PA PB PD PE				
QL	40	120	4.4	48.9	PF PW	FC			
XH	40	130	4.4	54.4			PA PB PD PE		
BK	40	140	4.4	60.0	PA PB PD PE PF PW	FB	PA PB PD PE		
KG	40	150	4.4	65.6	PA PB PD PE				
MX	40	200	4.4	93.3		FB			
LT	40	210	4.4	98.9	PA PB PD PE		PA PB PD PE		
KL	40	220	4.4	104.4	PA PB PD PE				
KH	40	240	4.4	115.6	PA PB PD PE PF PW		PA PB PD PE		
XZ	40	250	4.4	121.1					
QO	41	113	5.0	45.0	PD				
KP	42	92	5.6	33.3	PA PB PD PE				
XP	45	70	7.2	21.1			PA PB PD PE		
DU	45	95	7.2	35.0	PA PB PD PE		PA PB PD PE		
UF	45	130	7.2	54.4			PA PB PD PE		
JE	48	194	8.9	90.0	PA PB PD PE				
WY	50	70	10.0	21.1			PA PB PD PE		
TW	50	85	10.0	29.4			PA PB PD PE		
TP	50	86	10.0	30.0					
GS	50	95	10.0	35.0					
DX	50	100	10.0	37.8	PA PB PD PE PF PW		PA PB PD PE		
XB	50	104	10.0	40.0			PA PB PD PE		
AH	50	110	10.0	43.3	PA PB PD PE	FB	PA PB PD PE		
ED	50	120	10.0	48.9	PA PB PD PE PF PW	FB			
UR	50	130	10.0	54.4			PA PB PD PE		
V	50	150	10.0	65.6	PA PB PD PE PF PW	FA FB NA	PA PB PD PE		
UW	50	180	10.0	82.2	PG				
KQ	50	200	10.0	93.3	PA PB PD PE		PA PB PD PE		
AV	50	230	10.0	110.0	PA PB PD PE PF PW		PA PB PD PE	J	
BF	50	250	10.0	121.1	PA PB PD PE PF PW		PA PB PD PE PF PW	ET	
AO	50	300	10.0	148.9	PA PB PD PE		PA PB PD PE CA FA		
KM	50	350	10.0	176.7	PA PB PD PE PF PW		PA PB PD PE		
KF	50	400	10.0	204.4	PA PB PD PE		PA PB PD PE		
QP	50	450	10.0	232.2	PA PB PD PE	FX			
DW	50	550	10.0	287.8	PA PB PD PE		PA PB PD PE	K	
GU	50	750	10.0	398.9	PA PB PD PE				
EH	50	1,200	10.0	648.9					J
YY	55	80	12.8	26.7			PA PB PD PE		
AU	55	105	12.8	40.6	PA PB PD PE				
YA	57	87	13.9	30.6					
KY	57.8	78.2	14.3	25.7			PA PB PD PE		

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**MOD-TRONIC**  
INSTRUMENTS LIMITED

1 Delta Park Blvd, #12 Brampton, ON L6T 5G1  
Tel 905-457-6322 or 1-800-794-5883  
Fax 905-457-4716 or 1-800-830-7122  
sales@mod-tronic.com www.mod-tronic.com

Range Code	°F Temperature Range		°C Temperature Range		TT110, TT111, TT115, TT210, TT211, TT829		TT176, TT246, TT220	TT190, TT221	TT205
	4 mA	20 mA	4 mA	20 mA	Platinum elements	Other elements	Elements	T/CTypes	T/CTypes
SL	59	77	15.0	25.0					
GK	59	104	15.0	40.0					
WZ	60	80	15.6	26.7			PA PB PD PE		
GM	60	100	15.6	37.8					
KO	60	110	15.6	43.3	PA PB PD PE		PA PB PD PE		
YP	60	300	15.6	148.9	PF PW		PA PB PD PE		
WG	60	400	15.6	204.4					
SP	60.8	78.8	16.0	26.0					
GZ	64.4	82.4	18.0	28.0			PA PB PD PE		
UI	65	190	18.3	87.8	PA PB PD PE				
SV	68	104	20.0	40.0					
WX	68	176	20.0	80.0	PA PB PD PE				
TC	68	203	20.0	95.0					
EJ	68	212	20.0	100.0					
QJ	69	85	20.6	29.4			PA PB PD PE		
DZ	70	120	21.1	48.9	PA PB PD PE				
DM	70	130	21.1	54.4	PA PB PD PE		PA PB PD PE		
D	70	220	21.1	104.4	PA PB PD PE PF PW	FB FC	PA PB PD PE		
YV	70	320	21.1	160.0	PD				
YE	70	450	21.1	232.2					
AM	70	550	21.1	287.8		FB	PA PB PD PE		
LO	75	125	23.9	51.7	PA PB PD PE				
MJ	75	175	23.9	79.4	PA PB PD PE				
MK	75	200	23.9	93.3	PA PB PD PE				
SR	77	95	25.0	35.0			PA PB PD PE		
XJ	77	167	25.0	75.0	PA PB PD PE				
LQ	77	302	25.0	150.0			CA		
HQ	80	160	26.7	71.1	PA PB PD PE				
EC	80	180	26.7	82.2		FB			
BV	80	200	26.7	93.3	PA PB PD PE		PA PB PD PE		
LE	80	380	26.7	193.3		FB			
YK	80	400	26.7	204.4			PA PB PD PE		
QG	85	125	29.4	51.7			PA PB PD PE		
EW	86	122	30.0	50.0					
HK	90	190	32.2	87.8	PA PB PD PE				
Q	90	270	32.2	132.2	PA PB PD PE	FC	PA PB PD PE		
MY	100	130	37.8	54.4			PA PB PD PE		
JU	100	150	37.8	65.6	PA PB PD PE		PA PB PD PE		
W	100	200	37.8	93.3	PA PB PD PE		PA PB PD PE		
KT	100	240	37.8	115.6	PA PB PD PE				
Z	100	250	37.8	121.1	PA PB PD PE PF PW	FB	PA PB PD PE		
LL	100	300	37.8	148.9	PA PB PD PE		PA PB PD PE		
P	100	355	37.8	179.4	PA PB PD PE PF PW		PA PB PD PE		
JO	100	400	37.8	204.4	PA PB PD PE		PA PB PD PE		
E	100	500	37.8	260.0	PA PB PD PE PF PW		PA PB PD PE		
DE	100	550	37.8	287.8	PA PB PD PE			J	
JJ	100	1,000	37.8	537.8	PA PB PD PE			K	
YF	113	212	45.0	100.0					
WD	120	210	48.9	98.9	PA PB PD PE				
QZ	122	212	50.0	100.0	PA PB PD PE				
BH	122	302	50.0	150.0	PA PB PD PE		PA PB PD PE	T	
WH	122	392	50.0	200.0					
AQ	125	275	51.7	135.0	PA PB PD PE PF PW		PA PB PD PE		
MP	150	230	65.6	110.0			PA PB PD PE		
BR	150	250	65.6	121.1	PA PB PD PE		PA PB PD PE		
EM	150	300	65.6	148.9	PA PB PD PE				
YM	150	350	65.6	176.7			PA PB PD PE		
HN	160	380	71.1	193.3			PA PB PD PE		

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Range Code	°F Temperature Range		°C Temperature Range		TT110, TT111, TT115, TT210, TT211, TT829		TT176, TT246, TT220	TT190, TT221	TT205
	4 mA	20 mA	4 mA	20 mA	Platinum elements	Other elements	Elements	T/CTypes	T/CTypes
DF	165.2	215.6	74.0	102.0	PA PB PD PE PF PW				
BX	200	300	93.3	148.9	PA PB PD PE PF PW				
DI	200	350	93.3	176.7		FC			
BS	200	400	93.3	204.4	PA PB PD PE		PA PB PD PE		
T	200	425	93.3	218.3	PA PB PD PE				
WL	200	470	93.3	243.3					
BL	200	500	93.3	260.0	PA PB PD PE PF PW			K	
GA	200	700	93.3	371.1	PA PB PD PE	NA			
AE	200	1,000	93.3	537.8	PA PB PD PE				
GX	200	1,400	93.3	760.0				JKE	K
AY	212	302	100.0	150.0	PA PB PD PE				
AW	212	392	100.0	200.0	PA PB PD PE				
AX	212	572	100.0	300.0	PA PB PD PE		PA PB PD PE		
LB	212	1,562	100.0	850.0			PA PB PD PE		
DJ	235	335	112.8	168.3	PA PB PD PE				
DK	250	350	121.1	176.7	PA PB PD PE				
DT	250	450	121.1	232.2	PA PB PD PE				
UV	250	500	121.1	260.0			PA PB PD PE		
BT	250	1,000	121.1	537.8	PA PB PD PE		PA PB PD PE		
BA	257	392	125.0	200.0	PA PB PD PE		PA PB PD PE		
KI	260	450	126.7	232.2	PA PB PD PE				
F	300	400	148.9	204.4		FB			
HF	300	420	148.9	215.6	PA PB PD PE		PA PB PD PE		
BQ	300	500	148.9	260.0	PA PB PD PE		PA PB PD PE		
AL	300	800	148.9	426.7	PA PB PD PE		PA PB PD PE		
HS	300	1,000	148.9	537.8				K	
HW	300	1,300	148.9	704.4				K	
BB	302	482	150.0	250.0	PA PB PD PE				
BD	347	401	175.0	205.0	PA PB PD PE				
AZ	347	482	175.0	250.0	PA PB PD PE				
YU	374	410	190.0	210.0			PF		
LA	392	752	200.0	400.0	PF PW				
LZ	392	2,192	200.0	1,200.0					K
UY	400	600	204.4	315.6	PA PB PD PE				
HI	400	1,200	204.4	648.9			PA PB PD PE	J	
JP	400	1,600	204.4	871.1				E	
JV	500	1,100	260.0	593.3	PA PB PD PE		PA PB PD PE		
EF	600	800	315.6	426.7	PA PB PD PE				
HZ	600	1,300	315.6	704.4			PA PB PD PE	K	
HT	600	1,500	315.6	815.6				K	
KB	620	830	326.7	443.3			PA PB PD PE		
JS	700	900	371.1	482.2				J	
LU	700	1400	371.1	760.0			PA PB PD PE		
HX	800	1200	426.7	348.9				K	
HV	1000	1300	537.8	704.4				K	
HY	1000	1500	537.8	815.6				K	
LM	1000	1700	537.8	926.7				K	
YB	1112	1562	600.0	850.0			PA PB PD PE		
LI	1300	2500	704.4	1371.1					

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