

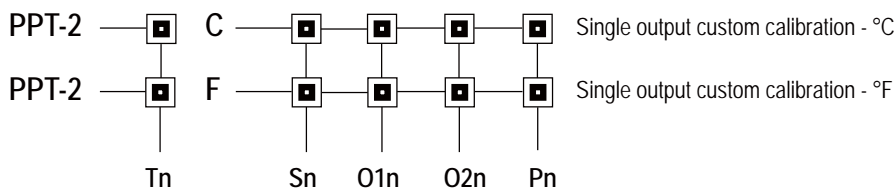
# Thermocouple Isolating Transmitters

**PPT-2**



## Features

- Linearized output
- Field - rangeability with switchable input & output ranges
- Changeable input T/C module of J K E T S R B N type
- Outstanding CJC traceability < 0.5°C maximum  
10 minutes warm up
- Accuracy 0.3%
- High dielectric strength 4KV AC rms input / output / power / case
- Available standard or custom calibration



Input modules Effective ranges	Tn	Input Ranges	Sn	Input Ranges	Sn	Output Ranges	O1n/ O2n	Aux. power	Pn
-100~440C/-150~800F	J4	-100~0	1	0~1100	18	0~1 V	A	AC120 V	A
-100~440C/-150~800F	K4	-100~50	2	0~1200	19	0~2 V	B	AC240 V	B
-150~400C/-220~750F	T4	-50~50	3	0~1400	20	0~5 V	C		
-100~750C/-150~1380F	J8	-50~100	4	0~1500	21	1~5 V	D	Option	
-100~800C/-150~1470F	E8	-50~200	5	0~1600	22	0~10 V	E	DC24 V	C
-100~1250C/-150~2250F	K12	0~100	6	0~1800	23	2~10 V	F	DC48 V	D
-100~1250C/-150~2250F	N12	0~150	7	0~2000	24	0~1 mA	G	DC12 V	E
300~1700C/600~3100F	R16	0~200	8	0~2200	25	0~2 mA	H	DC125 V	F
300~1700C/600~3100F	S16	0~250	9	300~1400	26	0~5 mA	I		
500~1750C/900~3200F	B16	0~300	10	300~1500	27	1~5 mA	J		
		0~400	11	300~1600	28	0~10 mA	K		
		0~500	12	300~1700	29	2~10 mA	L		
		0~600	13	500~1700	30	0~16 mA	M		
		0~700	14	600~2500	31	0~20 mA	N		
		0~800	15	600~2800	32	4~20 mA	P		
		0~900	16	600~3000	33	Specified	Y		
		0~1000	17	900~3000	34				
		Specified / non-list range				Y			



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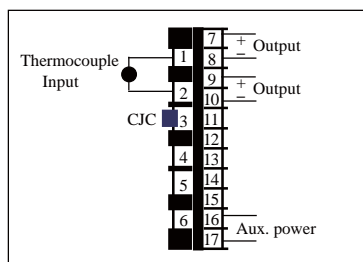
## Applied Standards & Rules

1. Measuring and conversion	IEC 688
2. Dielectrical strength	IEC 688 4 KVac / 1 min.
3. Impulse test	ANSI C37.90a / 1974, IEEE 587 / 1983, IEC 255-4 6KV (1.2 x 50 us)
4. Surge test (ring wave)	IEEE 587 / 1983 (3KV - 0.5us / 100KHz), IEC 255-4 (2.5KV - 0.25ms / 1MHz)
5. Measuring reliability	VDE 3540

## Specification

Accuracy (23° ± 5°C)	0.3% RO
Linearty & repeatability	0.12% typical Linearized output vs input temperature
Temperature stability	Less 0.01% fs per degree C
Configuration	Field rangeability Changeable thermocouple input module Selectable output for voltage or current mode Switchable input & output ranges Switchable AC power for 110V or 220V Selectable C / F calibration
CJC stability	Less 0.03°C per °C, 10 to 40°C
CJC traceability	Warm up condition, typically Less 0.5°C deviation in 10 minutes
Input resistance	Minimum 20MΩ
Effect of wire resistance	Less 4 uV per 100Ω
Input break detection	Selectable Hi-set or Lo-set Hi-set over 110% of rated output Lo-set less 0.5% of rated output
Maximum input over	Maximum 250V rms 30 sec
Power effect	Less 0.003% for per volt change
Response time & ripple	Less 400ms typically, ripple less 0.15% rms of span
Output drive capability	Maximum 10mA for voltage mode, maximum 10V for current mode
Common mode rejection	> 100db 50 / 60Hz
Dielectric strength	4KV AC between input / output / power / case
Impulse & surge test	IEEE 587 / 1983 or IEC 255-3
Storge condition	Temperature range -25 to +70°C, RH 20-95% non-condensed
Operating condition	Temperature range -20 to +65°C, RH 20-95% non-condensed
Power supply	± 20% of rating, less 5VA
Dimension	WxHxD : 12T (60.6mm) x 3U (128.5mm) x 238mm

## Terminal Connection



DC power option for terminal 16 (+), 17 (-)

## Dimension

