



# Specifications

## T/C Board for PLC03

<b>Number of channels:</b>	2, 4, 6 (specify on order)
<b>T/C type:</b>	“J”, “K” and “T”
<b>Temperature range:</b>	Type “J”: 0–712°C. (in Deg x 1 or Deg x 10) Type “K”: 20–1200°C. (in Deg x 1 or Deg x 10) Type “T”: 0–385°C. (in Deg x 1 or Deg x 10) Volts: 0–5 volt (in Eng units x 100 or x 1000) MVolts: 0–50 mv (in Eng units x 10 or x 100 )
<b>Resolution:</b>	1°C or .2°C (when JP3 is NOT installed)
<b>Open T/C detection is as follows:</b>	Bit 15 (MSB) of appropriate channel address is set (=1) (also indicates that Temperature is at (or above) full scale)
<b>A/D converter:</b>	12 bits
<b>Total inaccuracy:</b>	3°C over span
<b>Calibration:</b>	NONE
<b>Operating Temperature:</b>	0 to +60°C
<b>Storage Temperature:</b>	-40 to +70°C
<b>Relative Humidity:</b>	5% to 95% noncondensing

### JUMPER SETTING

JP1: 3-pos: 3. Type “K” or “T”  
2. Type “J”  
NOTE for 1 and 2 above: SET JP2 to T/C pos.  
1. Analog ( 0-5v or 0-50mv modes)  
NOTE: SET JP2 to ANALOG pos.

JP3-1: degC or degF ( JumperOFF = degF )  
JP3-2: x1 or x10 multiplier ( JumperOFF = x10 )

JP2: 2-pos: 1. TC mode  
2. Analog Mode  
NOTE: when in ANALOG mode, polarity of input wires MUST be reversed.



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**TB1 Designations\***

1	N/A
2	N/A
3	N/A
4	N/A
5	Ch.3- ( + for ANALOG )
6	Ch.3+ ( - for ANALOG )
7	Ch.2- ( + for ANALOG )
8	Ch.2+ ( - for ANALOG )
9	Ch.1- ( + for ANALOG )
10	Ch.1+ ( - for ANALOG )
11	Ch.0- ( + for ANALOG )
12	Ch.0+ ( - for ANALOG )
13	power 10-12vac (or 10-15 vdc, any polarity)
14	power 10-12vac (or 10-15 vdc, any polarity)

**\*Please Note:** Reverse Polarity For The Analog Type

NOTE: Terminals 2, 4, 6, 8, 10 and 12 are connected internally.

**PLC03 Memory MAP:**

T/C Channel	0	1	2	3	4	5
Plc03 reg				n/a	n/a	n/a
16 bit mode	48, 49	50, 51	n/a	n/a	n/a	n/a
8 bit mode	48	49	50	51	n/a	n/a

**Configure Board Per Table Below.**

Input Type	Firmware Chip	Rgain (ohm)
"J"	TC6J700W	402
"K"	TC6K120W	499
"T"	TC6T385W	402
0-5v	AN6V05W	NONE
0-50mv	AN6MV50W	499

NOTE: for 8 bit mode use firmware chips TC6\*\*\*B (was "W")