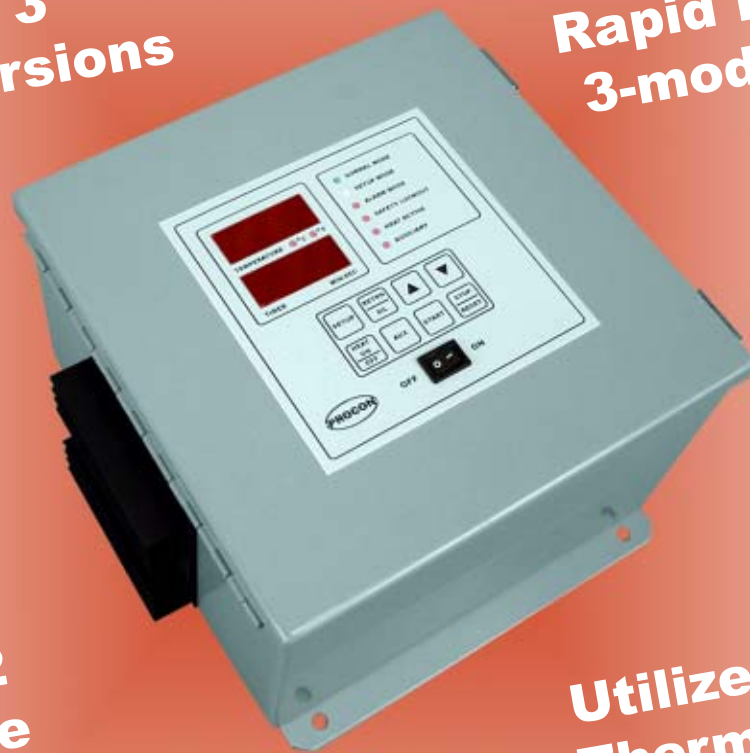


# PROCESS CONTROLLERS

**Self-Contained Microprocessor Based Units that Monitor and Control Temperature**  
Unit Contains a Temperature Controller, High Limit Controller, Transformer, Safety and Solid State Relays, External Heatsink and Many Other Features that make up a Complete System

**1 and 3  
Phase Versions**

**Rapid Response  
3-mode Control**



**NEMA 12  
Enclosure**

**Utilizes Type K  
Thermocouples**

**Series Contains a Number of Models based on  
Voltage and Current Requirements**

**PROCON from JPC CONTROLS**  
[www.jpcccontrols.com](http://www.jpcccontrols.com)



## SPECIFICATIONS

TEMPERATURE RANGE <sup>1</sup>	0 - 1999 Degrees F
TEMPERATURE RESOLUTION	1 Degree F
NOISE REJECTION	NMR - 60 db @60 HZ CMR - 120 db @ 60 HZ
TIME RANGE (OPTIONAL)	0:00 - 99:59 Min:Sec 0:00 - 99:59 Hrs:Min
TIME RESOLUTION (OPTIONAL)	1 Sec 1 Min
MEASURING TIME	10 Conversions/Sec
DISPLAY	Four or Eight, 0.56 Inch High, Seven Segment, LCD Uniplanar Numerals. Eight Discrete LEDs (Red, Green, Amber)
ANNUNCIATOR	Audio Tone, ~3200 HZ
SETUP MEMORY	EEPROM, All Parameters
MEMORY RETENTION	10 Years w/o Power
SENSOR <sup>2</sup>	Standard - Type K Thermocouple Cold Junction Compensation, Up Scale Break Protection
CONTROL	PID with Anti-Reset Windup
ADJUSTMENT	Cycle Rate: 0 - 19 Sec. Proportional Band: .1 - 199 Degrees F Reset (Integral): .1 - 199 Sec Rate (Derivative): .1 - 199 Sec Calibration Offset: + 99 Degrees F
OPERATING RANGE	0 to 50 Degrees C
STORAGE RANGE	-40 to 60 Degrees C
CONSTRUCTION	Enclosure - NEMA12, 14 ga Steel, Power Coated Face - Lexan, Back Printed
SIZE	10 x 8 x 6 inches 10 x 10 x 6 inches (HxWxD)
WEIGHT	< 18 lbs. (8.16 kg) < 22 lbs. (9.98 kg)
CONNECTIONS	Power & Load - 20 AMP Pressure Connector 22-10 AWG 40 AMP Pressure Connector 22-8 AWG Control - 6-32 Screws, 14 to 24 AWG Communications - DB9 (Optional)
OUTPUT	Heater: SSR, Optically isolated, Zero cross, 20 AMP or 40 AMP

1 Models also available in other ranges, configurations and scales.

2 Models also available with other temperature sensors (Type J T/C, RTD, etc.).

## MODELS

MODEL NUMBER	LINE VOLTAGE	PHASE	CURRENT	MAX WATTAGE
7510A20	120/208/240 VAC	1	20 AMPS	2400/4100/4800
7510A40	120/208/240 VAC	1	40 AMPS	4800/8300/9600
7510B20	208/240 VAC	3	20 AMPS	7200/8300
7510B40	208/240 VAC	3	40 AMPS	14400/16600
7510C20	277 VAC	1	20 AMPS	5500
7510C40	277 VAC	1	40 AMPS	11000
7510D20	480 VAC	1	20 AMPS	9600
7510D40	480 VAC	1	40 AMPS	19200
7510E20	480 VAC	3	20 AMPS	16600
7510E40	480 VAC	3	40 AMPS	33200



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LS-J7510-01