



TA-500 TEMPERATURE AVERAGER - SINGLE CHANNEL

The TA-500 is a precision temperature measuring device which provides a true volume weighted average temperature using a volume input signal and a temperature probe input signal. The micro-processor controlled TA-500 automatically calibrates the temperature probe each time temperature is sampled using two internal precision references. This proven technique eliminates both temperature drift and the requirement for field calibration since the probe temperature is calculated using a

ratio of the probe and internal references in lieu of a fixed voltage or current level. Probe temperature, input counts, total temperatures, average temperature, reset totals, flow rate and alarms are displayed. An internal lithium battery preserves all data and alarms during battery power failure and continues normal operation when power is restored. A fail-safe alarm relay is provided to shut down external equipment in the event of power failure, alarms, probe failure or microprocessor failure.

COUNT INPUTS

LEVEL: D. C. Dry Contact
A. C. 115 VAC Switched

ISOLATION: 1500 Volts - Optical

TEMPERATURE PROBE INPUTS

Dual Thermister Probe (Standard)
-20° to 150° F Range

TEMPERATURE ACCURACY

Probe Accuracy and Interchangeability
± .15° F over a range of -20° to 120° F
Internal Resolution ± 0.01° F

OPERATING TEMPERATURES

-10° to 160° F (Standard)
0 to 130° F, 0 to 140° F, 0 to 150° F
32° to 212° F, 59° to 239° F (Optional)

DISPLAY

16 Character Alpha Numeric
Liquid Crystal with Back Lighting
Total Temperature - 8 Digits
Probe Temperature - 4 Digits
Average Temperature - 4 Digits
Flow Rate - Counts per hour
Temperature Resolution - ± 0.1° F

CONTROLS

Forward/Reverse Switch to Cycle Display
Internal Reset Switch - Alarm/Totals

ALARM RELAY

10 Amp SPDT Dry Contact

COUNT ACCURACY

± 1% of Input Counts

LITHIUM BATTERY LIFE

3 to 5 Years

SIZE

11.0" H x 8.5" W x 7.0" D

WEIGHT

7 Pounds

ENCLOSURE

NEMA 4X Fiberglass (Standard)
NEMA 7 or NEMA 12 (Optional)

POWER REQUIRED

AC or DC
115 VAC 60 Hz .5 Amp or
11 to 15 VDC .6 Amp

DATA STORAGE

MCU - Motorola 68332@ 20mhz
Program - Non Volatile EPROM 8/1 M
DATA - CMOS RAM w/Battery Backup

COMMUNICATIONS

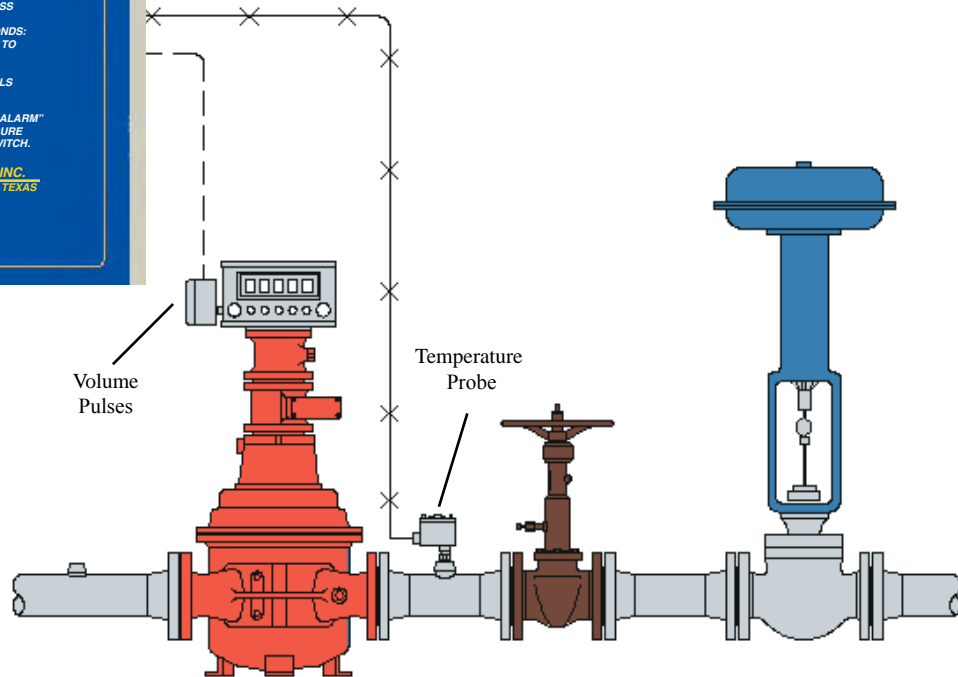
Remote - RS-232 C (Standard)
Custom Software Available

OPTIONS

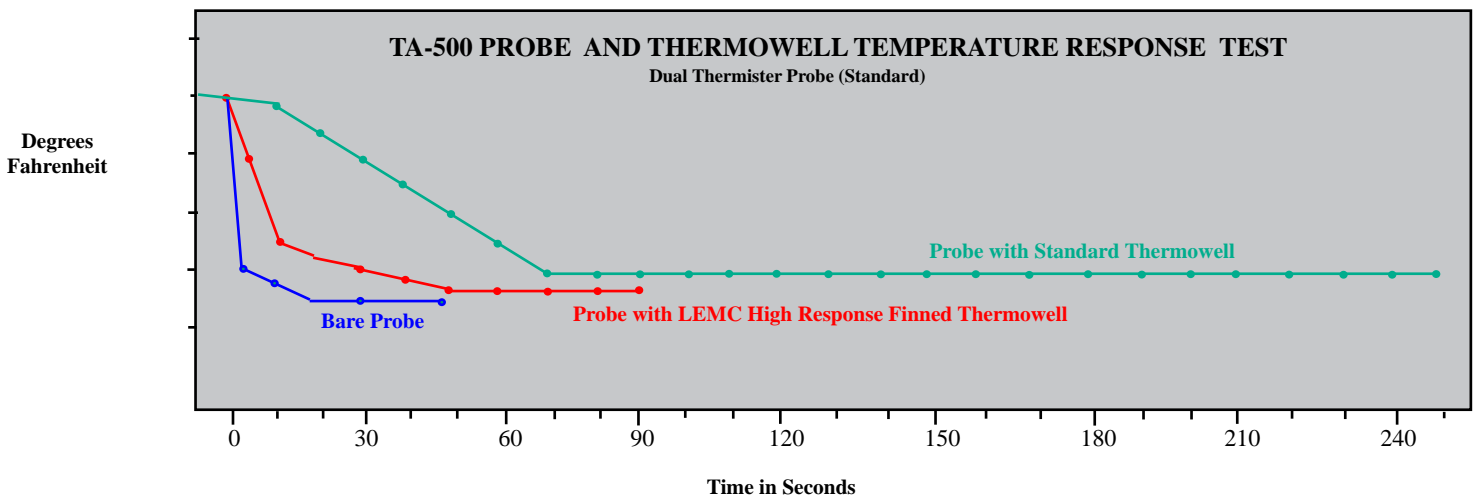
Printer Output
Communication Formats Available
Extended Temperature Ranges



Model TA - 500 1 - Temperature Channel



TEMPERATURE RESPONSE TEST





LEMCO® TA-500 TEMPERATURE AVERAGER MODEL SPECIFICATIONS

MODEL

TA-500 Standard Single Channel Temperature Averager

CODE ENCLOSURES

4X	Standard Fiberglass - NEMA 4X
7	Explosion Proof - NEMA 7

CODE TEMPERATURE PROBE OPTIONS

A	One (1) Dual Thermister Probe
---	-------------------------------

CODE THERMOWELL OPTIONS (N = quantity)

NG	1/2" NPT x 4" "U" Dimension
NJ	Low Pressure Meter - 2 Hole Plug
NK	High Pressure Meter - 4 Hole Plug

CODE MISCELLANEOUS OPTIONS

PT	Printer Software Only
PTR	Printer and Software
COM	Communication Option
NPO	Net Pulse Output
CBL1	Cable Communication - RS232C
CBL2	Cable Printer - RS232C
PR4X	Pressure Transducer NEMA 4X
PR7	Pressure Transducer NEMA 7
SPW	Solar Power System
24VDC	24 VDC to 12 VDC Converter
MFx	Meter Factor

TA-500 4X A 1G 24 VDC

"SEVERAL LOCATIONS TO SERVE YOU"

TERRITORIES INCLUDE TEXAS, NEW MEXICO, OKLAHOMA & KANSAS

CORPUS CHRISTI, TEXAS

2001 N. Lexington Blvd.
 P. O. Box 9035 78469
 Corpus Christi, Texas 78409
 phone: 361-289-5803
 fax: 361-289-6240

MIDLAND, TEXAS

4580 West Wall Street
 P. O. Box 4096 79704
 Midland, Texas 79703
 phone: 432-694-9644
 fax: 432-694-0921
 web: www.lemco.com

TULSA, OKLAHOMA

10404 East 55th Place, Suite N
 P. O. Box 472225 74147-2225
 Tulsa, Oklahoma 74146
 phone: 918-665-7999
 fax: 918-665-8151

