



FEATURES

- INPUT, OUTPUT, ISOLATION POWER SUPPLY AND SPECIAL FUNCTIONS COMBINED INTO ONE LOW COST MODULAR UNIT.
- ONE NLS® SERIES 8000 SIGNAL CONDITIONER CAN BE USED IN PLACE OF TWO OR THREE OTHER MANUFACTURER'S SIGNAL CONDITIONERS.
- FIELD-SETTABLE RANGE AND SPAN AND FIELD CONFIGURABLE.
- LARGE SELECTION OF INPUT, OUTPUT AND SPECIAL FUNCTION CIRCUIT MODULES.
- HIGH PERFORMANCE FUSE PROTECTED, LINEAR POWER SUPPLY FOR FULL 1500VDC ISOLATION.
- VERSATILE INDUSTRY STANDARD PIN FOR PIN PLUG-IN MODULES, 2.9" CHANNEL TRACK OR DIN RAIL MOUNTING.
- UL RECOGNIZED COMPONENT, FILE #E138883.
- HIGH IMPACT, FLAME RETARDANT POLYCARBONATE CASE (UL 94V-0).
- MADE IN THE U.S.A.

STANDARD SPECIFICATIONS

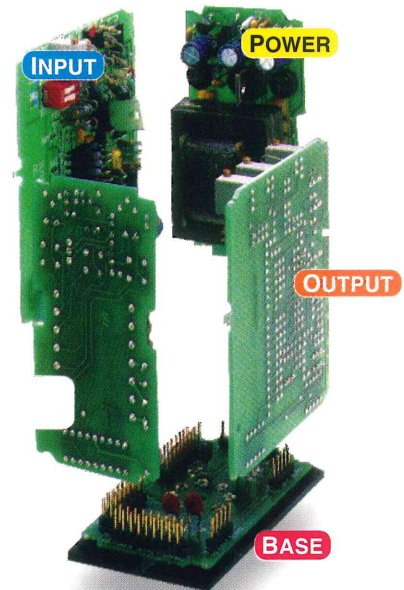
- ISOLATION:**
- POWER TO INPUT AND OUTPUT: 1500VDC OR AC PEAK
 - DC OUTPUT (INPUT TO OUTPUT): 1500VDC OR AC PEAK
 - DIELECTRIC: 2KV FOR ONE MINUTE (INPUT TO CASE)
- OPERATING TEMPERATURE:** 0-60°C (32 TO 140°F)
- POWER:** 120VAC/240VAC; (48Hz TO 400Hz)
- @ 2.5 WATTS ± 10%; 9VDC TO 32VDC
 - @ 2.5 WATTS, 125VDC @ 2.5 WATTS
- COMMON MODE REJECTION:** >120dB @ DC, >80dB @ 60Hz
- COMMON MODE VOLTAGE:** 600VDC OR AC PEAK (INPUT TO GROUND)
- ZERO OFFSET ADJUSTMENT:** ± 50% OF EACH SELECTED RANGE
- ZERO ADJUSTMENT:** ± 15% (NON-INTERACTIVE)
- SPAN ADJUSTMENT:** ± 15% (NON-INTERACTIVE)
- RANGE SETTINGS:** SWITCH SELECTABLE
- OVERVOLTAGE PROTECTION:** 250VAC ON INPUT
(NOT FOR CURRENT, RTD, T/C, mV INPUTS)
- SHORT CIRCUIT PROTECTION:** OUTPUTS (VOLTAGE AND CURRENT)
- RFI SUPPRESSION:** <10V/METER @ 146 MHz
- SHOCK AND VIBRATION:** MEETS MIL-T-28800 TYPE II CLASS 5
- HUMIDITY:** 90% RH NONCONDENSING
- CASE:** POLYCARBONATE, MEETS UL 94-0 FLAME RETARDANT
- WEIGHT:** 1.3 LBS. (0.59kg)

MODEL SERIES 8000

The Series 8000 Signal Conditioners are designed with a state of the art modular architecture to allow full input, output, and special function selectability and interchangeability. They can also be used as isolators, signal amplifiers and transmitters.

Select the exact input, output, and special function board for your unique application. Plug these boards into the isolated power supply and mother board set and you are ready to go! Units can be field ranged and configured or an NLS® authorized distributor can do this for you.

To design your Series 8000 Signal Conditioner, please follow the Ordering Guide sequence to the right.



ACCESSORIES

MOUNTING SOCKETS

- **DR011** 11 PIN BARRIER TERMINAL SOCKET FOR DIN RAIL OR FLUSH
- **DR014** DIN RAIL, THREE FOOT LENGTH METAL CHANNEL TRACK
- **DR018** 8 PIN BARRIER TERMINAL SOCKET FOR DIN RAIL OR FLUSH MOUNT
- **SM004** DIN RAIL PLASTIC CHANNEL TRACK, 4 FT. LENGTH
- **SM008** PIN BARRIER TERMINAL SOCKET FOR SM004 CHANNEL TRACK OR FLUSH MOUNT
- **SM011** 11 PIN BARRIER TERMINAL SOCKET FOR SM004 CHANNEL TRACK OR FLUSH MOUNT
- **SM020** 20 PIN BARRIER TERMINAL SOCKET FOR CHANNEL TRACK OR FLUSH MOUNT
- **SM800** RETAINING SPRING FOR HIGH VIBRATION MOUNTING AREAS

EXPLOSION PROOF HOUSING

- **SX008** EXPLOSION PROOF HOUSING
(MEETS CLASS 1, GROUP D, CLASS II, GROUP E, F, G)

POTENTIOMETERS / SHUNT RESISTORS (EXTERNAL USE ONLY)

- **SP001** ONE TURN POT. WITH DIAL PLATE, (1kΩ) - 0-100% SCALE
- **SP002** TEN TURN POT., DIGITAL DIAL, (1kΩ) - 0-999 COUNTS
- **SR006** 0.1Ω (5 WATTS) SHUNT RESISTOR 5 AMP. MAX (DC OR AC)

ORDERING GUIDE

8000 - **A B** - **C C** (INPUT CODE) - **D D** (OUTPUT CODE) - **E E** (SPECIAL FUNCTION) - **F F** (OPTIONS)

ORDERING EXAMPLES: MODEL NUMBER:

- 8000-1-1 -01 (0-27.2V) -60(4-20mA)
- 8000-1-1 -04 (J, +200 TO 500°F) -60 (1-5V)
- 8000-3-1 -09 (3mV/V) -86
- 8000-3-1 -04 (K, 0-400°C) -70 (0-1kHz) -43

DESCRIPTION OF SERIES 8000:

- = 8 PIN BASE, 120VAC POWER, INPUT OF 0-27.2VDC, OUTPUT 4-20mA
- = J THERMOCOUPLE INPUT, +200 TO 500°F, OUTPUT 1-5VDC
- = 20 PIN BASE, 120VAC POWER, 3mV/V STRAIN GAGE INPUT WITH SINGLE ALARM, KNOB SETTABLE
- = K THERMOCOUPLE INPUT, LINEARIZED OVER 0-400°C, OUTPUT 0-1kHz

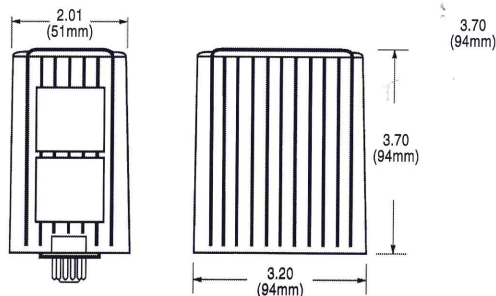
CODE	NUMBER OF PINS ON BASE.
1	8 PIN
2	11 PIN
3	20 PIN

CODE	AVAILABLE POWER SUPPLIES
1	120VAC
2	240VAC
3	9 TO 32 VDC
4	125 VDC

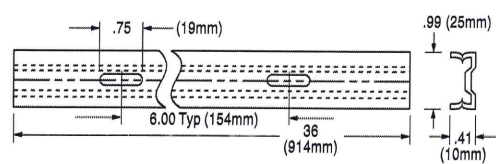
Note: For correct choice of **BASE**, see **Base Style Selection Chart**. Base is determined by Input/Output Combinations.

MECHANICAL SPECIFICATIONS

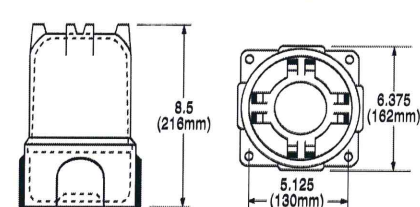
CASE DIMENSIONS



DR014 DIN RAIL

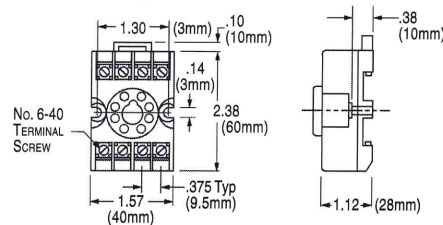


SX008 EXPLOSION PROOF HOUSING



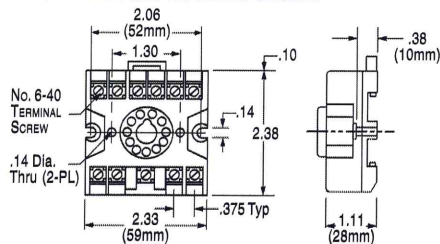
EXPLOSION PROOF HOUSING AVAILABLE. ORDER: PN# SX008, SX011, SX020. MEETS NEC CLASS 1, GROUP D - CLASS II, GROUPS E, F, G.

DR018 BARRIER TERMINAL SOCKET



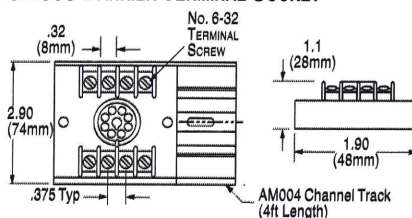
INDUSTRIAL 8-PIN OCTAL SOCKET: RATING UL AND CSA. 10 AMPERES 300VAC. WIRE SIZES: UP TO #12 AWG TERMINALS, PAN HEAD 6-40 SCREW

DR011 BARRIER TERMINAL SOCKET



INDUSTRIAL 11-PIN MAGNOL SOCKET: RATING UL AND CSA. 10 AMPERES 300VAC. WIRE SIZES: UP TO #12 AWG TERMINALS, PAN HEAD 6-40 SCREW.

SM008 BARRIER TERMINAL SOCKET



INPUTS TABLE: C

CODE	INPUT TYPE		MINIMUM SPAN	MAXIMUM FULL SCALE INPUT	INPUT IMPEDANCE (OHMS)	STABILITY % OF SPAN / °C	LINEARITY % OF SPAN	REPEATABILITY % OF SPAN	RESPONSE TIME
01	DC	VOLTAGE	100mV	300V	>1M	0.025	0.05	0.05	300 MILLISECONDS
		CURRENT	1mA	100mA	10				
02	POTENTIOMETER		20%	100%	>1M	0.02	0.05	0.05	300 MILLISECONDS
03	AC	VOLTAGE	100mV	300V	1M	0.025	0.2	0.05	<1 SECOND
		CURRENT	1mA	100mA	10				
04	THERMOCOUPLE		8mV	100mV	>1M	0.025	0.1	0.1	<100 MILLISECONDS
05	RTD		22mV	340mV	-----	0.025	0.1	0.1	<100 MILLISECONDS
06	mV DC		8mV	100mV	1M	0.025	0.1	0.1	<100 MILLISECONDS
07	#FREQUENCY SCALER		SCALE FACTOR 0.0001	SCALE FACTOR	TTL COMPATIBLE	-----	-----	-----	20 MILLISECONDS
08	†LVDT		±25mV RMS	±2.4V RMS	100k	0.025	0.25	0.1	<150 MILLISECONDS
09	STRAIN GAGE		2mV/V	300mV/V	>1M	0.01	0.025	0.1	100 MILLISECONDS
10	FREQUENCY		50Hz	50KHz	50k	0.05	0.2	0.05	100 MILLISECONDS
11	†PROGRAMMABLE RAMP/SOAK	RAMP	0.1 SEC	10 HRS	1M	0.01	0.1 OF TIME	0.5	-----
		SOAK	1 SEC	10 HRS					
12	HIGH SELECT (4 CHANNEL)	VOLTAGE	100mV	10V	1M	0.02	0.05	0.05	100 MILLISECONDS
		CURRENT	1mA	60mA	10				
13	LOW SELECT (4 CHANNEL)	VOLTAGE	100mV	10V	1M	0.02	0.05	0.05	100 MILLISECONDS
		CURRENT	1mA	50mA	10				
14	ADD/SUBTRACT (4 CHANNEL)	VOLTAGE	100mV	10V	1M	0.03	0.05	0.1	150 MILLISECONDS
		CURRENT	1mA	100mA	10 OR 100				
15	MULTIPLIER (A x B)	VOLTAGE	100mV	125V	1M	0.04	-----	0.1	100 MILLISECONDS
		CURRENT	1mA	100mA	10 OR 100				
16	DIVIDER (A ÷ B)	VOLTAGE	100mV	125V	1M	0.04	-----	0.1	100 MILLISECONDS
		CURRENT	1mA	100mA	10 OR 100				

ADDITIONAL INPUT BOARD SPECIFICATIONS

DC: BIPOLAR INPUTS ±50mV TO ±150VDC, FOR CURRENT INPUTS >100mA USE SHUNT RESISTOR PN#SR006 (5A MAX).

POTENTIOMETER: ANY POTENTIOMETER FROM 0 - 100Ω TO 0 - 100kΩ.

AC: 40Hz TO 1kHz; FOR CURRENT INPUTS >1A USE SHUNT RESISTOR PN# SR006 (5A MAX).

THERMOCOUPLE: COLD JUNCTION COMPENSATION 1°C FROM 0-60°C; BREAK DETECTION UP SCALE STANDARD, (DOWN SCALE OPTIONAL, SEE TABLE F); JUMPER SELECTABLE; BREAK DETECT CURRENT <10nA; DIFFERENTIAL T/C >4mV.

RTD: INPUT TYPE 2 OR 3 WIRE; 100Ω PT, 10Ω CU, 120Ω NI; EXCITATION 0.7mA, 1mA, 10mA (SELECTABLE); LEAD WIRE RESISTANCE 50Ω PER LEAD (0.1% MAX ERROR); LINEARITY 0.1%; DIFFERENTIAL RTD 1Ω TO 100Ω SPANS.

MILLIVOLT: SMALL SPAN mV INPUT 8mV TO 100mV; BIPOLAR ±4mV TO ±5mV.

#FREQUENCY SCALER: INPUT: 0-100kHz, SINE WAVE, SQUARE WAVE, PULSE; THRESHOLD ADJUSTMENT 50mV TO 50V PEAK TO PEAK; OUTPUT: SWITCH SELECTABLE MULTIPLIER, TTL, 24V PULSE AT 30mA CONTACT CLOSURE (SPST @ 1A).

†LVDT: EXCITATION 0.5V TO 3V RMS @ 20mA ADJUSTABLE; 2.5kHz/4kHz (JUMPER SELECTABLE); PHASE ADJUSTMENT MULTITURN, 0-45°, STATUS LIGHT; CENTER NULL ADJUSTMENT DUAL LED STATUS INDICATOR, BIPOLAR ±75mV TO ±1.2V RMS.

STRAIN GAGE: EXCITATION HIGH EFFICIENCY, FIXED PULSE 5V @ 80mA, DRIVES UP TO FOUR 350W BRIDGES. **FREQUENCY:** 50Hz-50kHz (RANGE SELECTABLE); THRESHOLD ADJUSTABLE; 100mV TO 1V PEAK.

†PROGRAMMABLE RAMP/SOAK: HOLD/RESET BY SELECTABLE CONTACT CLOSURE OR 5V PULSE, (1 MILLISECOND MINIMUM DURATION); SOAK CYCLE/RAMP RATE/SETPOINT PROGRAMMABLE VIA POTENTIOMETER (100W TO 100kW) OR 5VDC; RAMP RESOLUTION 4096 STEPS FOR FULL SCALE; CLOCK EXTERNAL/INTERNAL (SELECTABLE); DROOP ON HOLD NONE.

HIGH/LOW SELECT: INPUT 2, 3, OR 4 CHANNEL (JUMPER SELECTABLE); CHANNEL SELECT INDICATION LED ON SELECTED CHANNEL, TTL OUTPUT ON SELECTED CHANNEL.

ADD/SUBTRACT: 2, 3, OR 4 CHANNELS IN ANY COMBINATION + OR - (JUMPER SELECTABLE).

MULTIPLIER: 2 CHANNEL DC VOLTAGE OR CURRENT; DYNAMIC RANGE 20:1 OF INPUT.

DIVIDER: 2 CHANNEL DC VOLTAGE OR CURRENT; DYNAMIC RANGE 20:1 OF INPUT.

† RAMP SOAK, AND LVDT INPUT CANNOT BE USED WITH FUNCTION BOARD.

FREQUENCY SCALER CANNOT BE USED WITH OTHER BOARDS.

MIN. SPAN IN DEGREES

TYPE	1C	°F	°C
J		300°	148°
K		356°	180°
T		316°	157°
E		225°	107°
R		1450°	787°
S		1550°	843°
B		2360°	1293°

MIN. SPAN IN DEGREES

RTD TYPE	°F	°C
100Ω PT	60°	15°
10Ω CU	54°	12°
120Ω NI	50°	10°

BASE STYLE SELECTION CHART

INPUT CODE	INPUT TYPE	OUTPUT CODE TYPE						
		60	80, 85, 86 90, 95, 96	73, 81, 82, 83, 84, 91, 92, 93, 94; OR 80, 85, 86, 90, 95, 96 w/OPT. 07	70	71, 72	60 WITH 46	70, 71, 72 WITH 46
		DC OUTPUT	ALARM(s) w/ POT OR KNOB SETPOINT ADJUST.	REMOTE ALARM SETPOINT POT/KNOB ALARM w/ LATCH VALVE POSITIONER	FREQUENCY OUTPUT w/ 5V PULSE	FREQUENCY OUTPUT w/ 24V PULSE OR RELAY	DC OUTPUT w/ PEAK OR VALLEY	ALL OTHERS w/ PEAK OR VALLEY
01	DC	8 PIN	11 PIN	20 PIN BASE	8 PIN	11 PIN	11 PIN	20 PIN
03	AC	8 PIN	11 PIN	20 PIN	8 PIN	11 PIN	11 PIN	20 PIN
02	POTENTIOMETER	8 PIN	20 PIN	20 PIN	8 PIN	20 PIN	20 PIN	20 PIN
04	THERMOCOUPLE	8 PIN	11 PIN	20 PIN	8 PIN	11 PIN	11 PIN	20 PIN
05	RTD	8 PIN	20 PIN	20 PIN	8 PIN	20 PIN	20 PIN	20 PIN
06	mV DC	8 PIN	11 PIN	20 PIN	8 PIN	11 PIN	11 PIN	20 PIN
07	FREQUENCY SCALER	8 PIN ONLY	-----	CANNOT BE USED WITH OTHER BOARDS.				
08	LVDT	11 PIN	20 PIN	-----	20 PIN	20 PIN	-----	-----
09	STRAIN-GAUGE	11 PIN	20 PIN	20 PIN	11 PIN	11 PIN	-----	-----
10	FREQUENCY	8 PIN	11 PIN	20 PIN	8 PIN	11 PIN	11 PIN	20 PIN
11	RAMP/SOAK	20 PIN	20 PIN	-----	-----	20 PIN	-----	-----
12/13	HIGH/LOW SELECT	20 PIN	20 PIN	20 PIN	20 PIN	20 PIN	-----	-----
14	ADD/SUBTRACT	20 PIN	20 PIN	20 PIN	20 PIN	20 PIN	-----	-----
15/16	MULTIPLIER/DIVIDER	8 PIN	20 PIN	20 PIN	8 PIN	20 PIN	20 PIN	20 PIN

NOTE-01: INPUT "CC" AND OUTPUT "DD" COMBINATION DETERMINES THE NUMBER OF PINS THE BASE REQUIRES. INTERSECTION OF INPUT TYPE (LEFT SIDE) WITH OUTPUT TYPE (TOP) IS NUMBER OF PINS ON BASE (SEE TABLE A FOR CODE).

NOTE-02: WHEN USING #46 "PEAK/VALLEY SAMPLE HOLD" SPECIAL FUNCTION, ADDITIONAL SOCKET PINS ARE REQUIRED. FOR PROPER BASE PIN COUNT, PLEASE SEE RIGHT SIDE SECTION OF SELECTION CHART.



OUTPUTS TABLE: D

CODE	OUTPUT TYPE	MINIMUM SPAN	MAXIMUM FULL SCALE OUTPUT	OUTPUT IMPEDANCE	STABILITY % OF SPAN/°C	LINEARITY % OF SPAN	REPEATABILITY % OF SPAN	RESPONSE TIME
60	DC VOLTAGE CURRENT	100mV @ 10mA 1mA @ 15V	10V @ 10mA 50mA @ 15V	<1Ω >1MΩ	0.025	0.05	0.05	100 MILLISECONDS
70	FREQUENCY 5V (TTL & CMOS) @ 10mA	11 pph	50kHz	<1W	0.05	0.2	-----	20 MILLISECONDS
71	FREQUENCY CONTACT CLOSURE	11 pph	3.1Hz	RELAY 1A @ 120V	0.05	0.2	-----	20 MILLISECONDS
72	FREQUENCY 24V PULSE (UNREGULATED)	11 pph	50kHz	24V @ 30mA	0.05	0.2	-----	20 MILLISECONDS
73	VALVE POSITIONER	-----	-----	RELAY 5A @ 120V	0.05	0.05	±1.0	150 MILLISECONDS

OUTPUTS TABLE: Alarm

CODE	ALARM TYPE	SETPOINT METHOD	CODE	ALARM TYPE	SETPOINT METHOD
80	1 ALARM SETPOINT	SINGLE TURN SCREWDRIVER	90	2 ALARM SETPOINT	SINGLE TURN SCREWDRIVER
81	1 ALARM SETPOINT	DC PROGRAMMABLE 4-20mA	91	2 ALARM SETPOINT	DC PROGRAMMABLE 4-20mA
82	1 ALARM SETPOINT	DC PROGRAMMABLE 1-5V	92	2 ALARM SETPOINT	DC PROGRAMMABLE 1-5V
83	1 ALARM SETPOINT	DC PROGRAMMABLE 0-1V	93	2 ALARM SETPOINT	DC PROGRAMMABLE 0-1V
84	1 ALARM SETPOINT	DC PROGRAMMABLE 0-10V	94	2 ALARM SETPOINT	DC PROGRAMMABLE 0-10V
85	1 ALARM SETPOINT	MULTITURN SCREWDRIVER ADJUSTMENT	95	2 ALARM SETPOINT	MULTITURN SCREWDRIVER ADJUSTMENT
86	1 ALARM SETPOINT	TOP MOUNTED KNOB	96	2 ALARM SETPOINT	TOP MOUNTED KNOB (1 TURN)
87	1 ALARM SETPOINT	REMOTE SETPOINT POTENTIOMETER 100 -100KΩ	97	2 ALARM SETPOINT	REMOTE SETPOINT POTENTIOMETER 100W -100KΩ

OUTPUTS TABLE: Power

CODE	DEVICE	OUTPUT RANGE	MAXIMUM FULL SCALE OUTPUT	OUTPUT IMPEDANCE	STABILITY % OF °C	LINEARITY % OF SPAN	REPEATABILITY % OF SPAN	RESPONSE TIME
65	ADJUSTABLE POWER SUPPLY	ADJUSTABLE 4.5 - 24VDC @ 50mA	-----	-----	0.03	-----	-----	-----

ADDITIONAL OUTPUT SPECIFICATIONS

DC: OUTPUT BIPOLAR, ±1VDC TO ±6VDC @ 1mA; OUTPUT RIPPLE <5mV RMS.
ADJUSTABLE POWER SUPPLY: OUTPUT RIPPLE <10mVpp; LOAD REGULATION 70mV OR 1.5% WHICHEVER IS GREATER; UNREGULATED OUTPUT 40V @ 35mA; REGULATED OR UNREGULATED (JUMPER SELECTABLE); CANNOT BE USED WITH OTHER BOARDS. (USE 8 PIN BASE)
FREQUENCY: 0-50kHz (SWITCH SELECTABLE); TTL AND CMOS COMPATIBLE (5V AT 10mA); 24V UNREGULATED PULSE AT 30mA; RELAY CONTACT (FORM C). PULSE DURATION SELECTABLE 1:1 OR 90MS.

VALVE POSITIONER: DIFFERENTIAL ADJUSTMENT (DEADBAND) 1-30% (MULTITURN ADJ.); FEEDBACK INPUT RANGE 4-20mA, 0-10VDC, 1-5VDC, 0-1VDC OR POTENTIOMETER SLIDE WIRE 100Ω TO 100KΩ (JUMPER SELECTABLE). SLIDE WIRE EXCITATION: 3V OR 5V @ 5mA. RELAY OUTPUT 5A @ 120VAC.

ALARMS (#80-87; #90-97) SINGLE/DUAL: DEADBAND ADJUSTABLE PER SETPOINT, 0.5 TO 100% OF SPAN (MULTITURN); LATCH/NON-LATCH SELECTABLE FOR EACH ALARM (JUMPER SELECTABLE); FAILSAFE/NON-FAILSAFE SELECTABLE VIA JUMPER; TRIP CONFIGURATION HIGH/LOW; LOW/LOW, HIGH/HIGH; JUMPER SELECTABLE; EXTERNAL RELAY DRIVE (OPTION #07, SEE TABLE F); TRANSMITTER OUTPUTS 0-1VDC.

*SPECIAL FUNCTIONS TABLE: E

CODE	SPECIAL FUNCTION	STABILITY % OF SPAN	LINEARITY	REPEATABILITY % OF SPAN	RESPONSE TIME
00	NO FUNCTION	-----	-----	-----	-----
40	SQUARE ROOT	0.5	-----	0.1	100 MILLISECONDS
41	POWER TERM A TM	0.5	1.0	0.1	100 MILLISECONDS
42	NTH ROOT	0.5	1.0	0.1	100 MILLISECONDS
43	THERMOCOUPLE/RTD LINEARIZATION	0.01	<0.5°	0.05	100 MILLISECONDS
44	CURVE FIT LINEARIZATION	0.01	<0.5°	0.1	100 MILLISECONDS
45	RAMP BUFFER	0.02/°C	1.0	0.1	1 SECOND TO 20 MINUTES
46**	PEAK/SAMPLE HOLD	0.05/°C	0.1	0.2	50 MILLISECONDS
48	RATE OF CHANGE	0.02	0.01	0.01	100 MILLISECONDS
49	LCD DISPLAY	0.1	-----	-----	300 MILLISECONDS

ADDITIONAL SPECIAL FUNCTION SPECIFICATIONS

SQUARE ROOT: ROOT ADJUSTMENT RANGE 0.5 TO 5.5 (SELECTABLE); TRIM ADJUSTMENT ±0.5 POWER VIA MULTITURN POT.
POWER TERM ATM: POWER ADJUSTMENT RANGE 0.5 TO 5.5 (SELECTABLE); TRIM ADJUSTMENT ±0.5 POWER VIA MULTITURN POT.
NTH ROOT: ROOT ADJUSTMENT RANGE 0.5 TO 5.5 (SELECTABLE); TRIM ADJUSTMENT ±0.5 POWER VIA MULTITURN POT.
THERMOCOUPLE/RTD LINEARIZATION: SPECIFY THERMOCOUPLE OR RTD TYPE (E.G. TYPE K) AND RANGE DESIRED WHEN ORDERING INPUT BOARD 04 OR 05. CAN LINEARIZE ALL STANDARD NIST POLYNOMIALS. LINEARITY IMPROVEMENT 10:1 OVER T/C SPAN (RANGE DEPENDENT).

CURVE FIT LINEARIZATION: LINEARITY IMPROVEMENT, 10:1 OVER BEST STRAIGHT LINE (SUPPLY CURVE ON ORDER).
RAMP BUFFER: ADJUSTMENT RANGE 1 SEC. TO 20 MIN. VIA MULTITURN POT.
PEAK OR VALLEY HOLD: JUMPER SELECTABLE, TRACK SIGNAL OR SAMPLE SIGNAL HOLD VIA EXTERNAL CONTACT CLOSURE OR 5V TTL HIGH SIGNAL.
RATE OF CHANGE: TIME BASE, 0.1SEC., 1SEC., 10SEC., 1MIN., 1HR., (JUMPER SELECTABLE).
LCD DISPLAY: 3 DIGIT LCD DISPLAY OF INPUT SIGNAL IN ENGINEERING UNITS. ADJUSTABLE DECIMAL POINT. (SPECIFY RANGE WHEN ORDERING.)

*NOT FOR LVDT CONFIGURATIONS ** SEE BASE SELECTION TABLE.

OPTIONS TABLE: F

FOR ALARM SETPOINTS		FOR TEMPERATURE INPUTS	
CODE	DESCRIPTION	CODE	DESCRIPTION
00	NO OPTION	06	DOWN SCALE BURNOUT FOR THERMOCOUPLE INPUT
01	LOW---LOW/LOW RELAY SENSE (SINGLE OR DUAL ALARMS)	08	DIFFERENTIAL RTD INPUT
02	HIGH---HIGH/HIGH RELAY SENSE (SINGLE OR DUAL ALARMS)	09	DIFFERENTIAL THERMOCOUPLE INPUT
03	FAIL-SAFE OPERATION (DUAL ALARMS)		
04	0 - 1VDC TRANSMITTER OUTPUT FOR PROCESS, (NOT AVAILABLE WITH INPUT TYPES OF STRAIN-GAGE, LVDT, MULTIPLY/DIVIDE, ADD/SUBTRACT, OR HIGH/LOW SELECT)		
05	LATCHING RELAYS; JUMPER SELECTION FOR LATCH/NON-LATCH ON INDIVIDUAL RELAYS		
07	VOLTAGE OUTPUT (24V @ 5mA) REPLACES RELAY CONTACTS ON ALARMS		

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

