

SINGLE INPUT CARD

ANALOG DIGITAL DEVICE

(SUB ASSY. DWG. 91350-19AD*-1)

SET POINT

(SUB ASSY. DWG. 91350-19AD1/2-1)

1 = SINGLE SET POINT

2 = DUAL SET POINT

91 AD

X

CUSTOM RANGE OPTION

026 = 10 OHM CU -70 TO 165°C
028 = 10 OHM CU 0 TO 150°C

CARD EDGE CONTACT FINGERS PLATING OPTION

(BLANK FIELD INDICATES STANDARD TIN PLATING)

1GF = GOLD PLATING ON CARD EDGE CONNECTOR FINGERS

PER ENG-151-9

2GF = GOLD PLATING ON CARD EDGE CONNECTOR FINGERS

AND LIGHTBOX CONNECTOR FINGERS PER ENG-151-9

3GF = GOLD FLASHING ON CARD EDGE CONNECTOR FINGERS

PER ENG-151-9

4GF = GOLD FLASHING ON CARD EDGE CONNECTOR FINGERS

AND LIGHTBOX CONNECTOR FINGERS PER ENG-151-9

OPTIONS

4 1NE = NO TRANSDUCER EXCITATION

2 2RE = SQUARE ROOT EXTRACTION

2 1DR = OPTIONAL SCALE RANGE IDENTIFICATION

(INCLUDES LINEAR AND SQUARE ROOT)

4 2NE = NO TRANSDUCER EXCITATION

*Y = POLARIZING KEY - DWG. 90850-*Y-1

1X0, 2X0 = SPECIAL PGMBH CROSSOVER BUSSING

(OBSOLETE, SEE ECN 7098-9A)

3X0 = DISCONNECT P3 BUS, NOT RECOMMENDED,

CONSULT FACTORY

8 *NL = NEGATIVE SLOPE

13 *PF = POWER FACTOR

5SF = TEST ON CUSTOMER TERMINAL 5

(DISCONNECTED FROM X3 BUS)

DEADBAND OPTION

STANDARD = 1% (THIS FIELD NOT REQUIRED IF
STANDARD DEADBAND IS USED)

1FDB = 0.5%

2FDB = 2.0%

3FDB = 5.0%

4FDB = 10.0%

5FDB = 0.25%

PLACE HOLDER

X = INDICATES PLACE HOLDER REQUIRED WHEN
ADDITIONAL OPTIONS ARE SPECIFIED

XA, XB = (OBSOLETE, SEE ECN 6841-36A)

NOTES:

1. NO SINGLE OR TWINPOINT SEQUENCE CARDS WITH OPTIONS 'T','KP',
'PC','PR','4RL','6RL' AND LAMP TEST OPTION '1LT' ARE TO BE
USED WITHIN THE SAME HORIZONTAL CHASSIS ROW IN WHICH METER
SET ANALOG CARDS ARE INSERTED SEQUENCE CARDS 91AR6,AR7,VR6,
VR7,92AR6 AND AR7 ARE NOT TO BE USED WITH METER SET ANALOG
CARDS.

2 AVAILABLE ON AXD*,PXD* AND LC* ONLY. SEE DWG. #91450 1DR().

3 TEMPERATURE SCALES ARE SHOWN IN DEGREES 'C',EQUIVALENT
DEGREE 'F' SCALES ARE ALSO DISPLAYED (SWITCH SELECTABLE).

4 AVAILABLE ON LC*,R*,RR* AND TM* ONLY.

5 REQUIRES 90ATB1 COLD JUNCTION COMPENSATOR ACROSS
TERMINALS 3 & 4.

6 WHEN MODEL AXD1 OR AXD2 IS USED WITH CURRENT INPUT
TRANSDUCER AN AUXILIARY TERMINAL BLOCK IS REQUIRED ACROSS
TERMINALS 1 & 2. REF. DWG. #91450-AXD*-1, TABLE 2.

7 RTD CURVE PER DIN STD. #43760.

8 MAY BE USED ONLY WITH DIGITAL DISPLAY CONTAINING 90CPX1X038
REQUIRES P/N 651252 ON 91AD*TC8.

9 MUST BE USED ONLY WITH DIGITAL DISPLAY CONTAINING 90CPX1X020.

10 INPUT TYPE 'RR*' OBSOLETE, REPLACED BY TYPE 'R*' FOR 4 WIRE
APPLICATIONS, SEE 91450-R*-1.

11 MUST BE USED ONLY WITH DIGITAL DISPLAY CONTAINING 90CPX1X026.

12 MUST BE USED ONLY WITH DIGITAL DISPLAY CONTAINING 90CPX1X028.

13 REQUIRES P/N 651252 ON 91AD* CARD AND (036) 1DR CPX1 CARD.

14 MUST BE USED ONLY WITH DIGITAL DISPLAY CONTAINING 90CPX2X054.

METER SET ANALOG INPUT OPTION LIST

INPUT DESIGNATION	TRANSDUCER TYPE	INPUT	SCALE(DISPLAYED)	ASS'Y. STD. DWG.	ASS'Y. W/1NE OPTION	WIRING DWG.
6 AXD1 AXD2 AXD3 AXD4 AXD5 AXD6 AXD7 AXD8	ACTIVE INSTRUMENTATION SIGNAL	0.2 TO 1.0V 0 TO 1.0V 1.0 TO 5.0V 0 TO 10V -5 TO +5V -10 TO +10V -1 TO +1V 0 TO 100mV	0.0 - 100.OE (PERCENT)	91300-19AD*AXD*-1 -2 -1 -2 -3 -3 -3 -2		91450-AXD*-1
13 PXD1 PXD2 PXD3	PASSIVE INSTRUMENTATION SIGNAL	0.4 TO 2.0mA 1.0 TO 5.0mA 4.0 TO 20.0mA	0.0 - 100.OE (PERCENT)	91300-19AD*PXD*-1		91450-PXD*-1
LC1 LC2 LC3 LC4	LOAD CELL (STRAIN GAUGE)	5.0mV/V.MAX.@10V 3.5mV/V.MAX.@10V 10.0mV/V.MAX.@5V 7.0mV/V.MAX.@5V	0.0 - 100.OE (PERCENT)	91300-19AD*LC*-1	91300-19AD*LC*-2	91450-LC*-1
11 R1 R1***026 12 R1***028 R2 R3 R4	3 & 4 WIRE RTD	CU,10 OHM @ 25°C CU,10 OHM @ 25°C CU,10 OHM @ 25°C PT,100 OHM @ 0°C NI,120 OHM @ 0°C NI,100 OHM @ 0°C	-70 TO 150°C -70 TO 165°C 0 TO 150°C -200 TO 600°C -60 TO 180°C -60 TO 180°C	91300-19AD*R*-1	91300-19AD*R*-2	91450-R*-1
10 RR1 RR2 RR3 RR4						
5 TC1 TC2 TC3 TC4 TC5 TC6 TC7 TC8 TC9	THERMOCOUPLE	TYPE J TYPE K TYPE T TYPE E TYPE R TYPE S TYPE J TYPE T TYPE J	0 TO 760°C 0 TO 1260°C -185 TO 370°C -185 TO 870°C 0 TO 1500°C 0 TO 1500°C -50 TO 300°C -200 TO 370°C -130 TO 760°C	91300-19AD*TC*-1 91300-19AD*TC*-2 91300-19AD*TC*-1 91300-19AD*TC*-1 91300-19AD*TC*-1		91450-TC*-1
TM1 TM2 TM3 TM4 TM5 TM6 TM7	THERMISTOR	100 OHM @ 25°C 300 OHM @ 25°C 500 OHM @ 25°C 1000 OHM @ 25°C 2252 OHM @ 25°C 3000 OHM @ 25°C 5000 OHM @ 25°C	-70 TO 25°C -50 TO 60°C -40 TO 75°C -25 TO 90°C -10 TO 115°C 0 TO 125°C 10 TO 150°C	91300-19AD*TM*-1	91300-19AD*TM*-2	91450-TM*-1

REV	ECN NO.	BY	APPD	DATE	MATERIAL: NONE
16	7099-71	SK	AHD	05/11/90	FINISH: NONE
17	10558-01	SM	JT	01/09/91	USED ON/REF. DWG
18	10623	SM	AHD	01/16/91	91AD*
19	10623-01	SM	PG	05/30/91	
20	10820-01	SK	PG	12/03/91	
21	11179	SK	CNT	12/11/92	
22	11438	SK	JT	10/27/94	
23	11875	SK		/ /	

TOL. UNLESS SPECIFIED
INCHES
.X = .015
.XX = .010
.XXX = .005
MILLIMETERS
X.0 = 1.0
0.X = 0.4
0.XX = 0.1
ANGLES ±0°30'
SCALE INCH (MM)
NONE

PANALARM
DWN. BY MR/SM
APPD/DATE JES 05/19/82
THIRD ANGLE PROJECTION

AMETEK

PANALARM 1725 WESTERN DRIVE, WEST CHICAGO, IL., 60185, U.S.A.
PHONE: 1-630-231-5900 FAX: 1-630-231-4502

SERIES 90 METER SET ANALOG
INPUT AND OPTION DRAWINGS