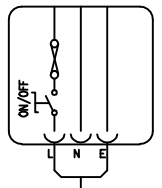
DRG No A0-204/78053 SHT 5 OF 16

DRAWING PRACTICE TO BS308 – THIRD ANGLE PROJECTION

LAKESHORE MODEL 218 TEMPERATURE MONITOR UNIT 3

POWER

MAINS INPUT

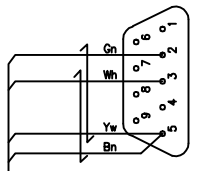


IEC

RACK DIST. BOARD
VIA IEC BLOCK SPT/P04-5
3C 1.0mm² PVC
SEE DWG 204/78052

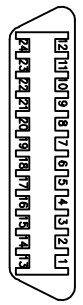
SERIAL I/O

RS-232



RS232 COMMS WIRING DIAGRAM SPT/C13
SEE DRG 204/78058 SHT 1 2 TW PR LAPP 2x20.25

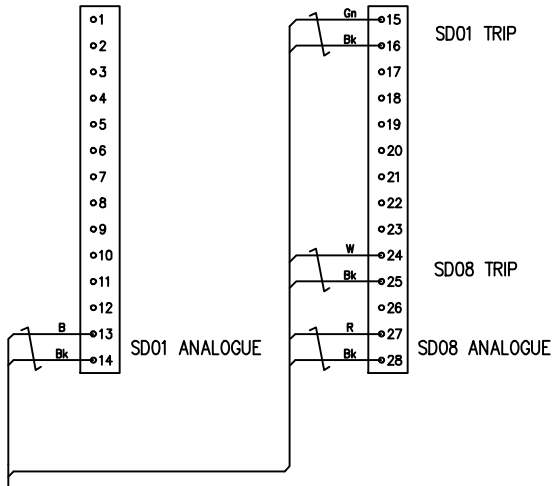
IEEE-488 INTERFACE



NOT USED

RELAYS 30VDC 5A

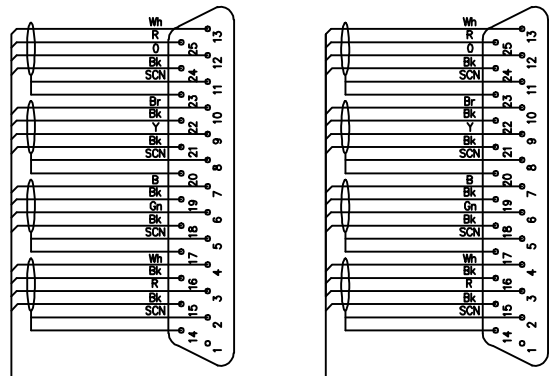
BLK 1 BLK 2



RELAY TRIPS TO TB5 32-351 SPT/11
SEE DRG 204/78059 SHT 1 PART 8twpr
ANALOGUE TO TB 3 5-8 ADC 1
SEE DRG 204/78056

INPUTS

1-4 5-8



SD 07 (1)
SD 03 (2)
SD 25 (3)
SD 26 (4)

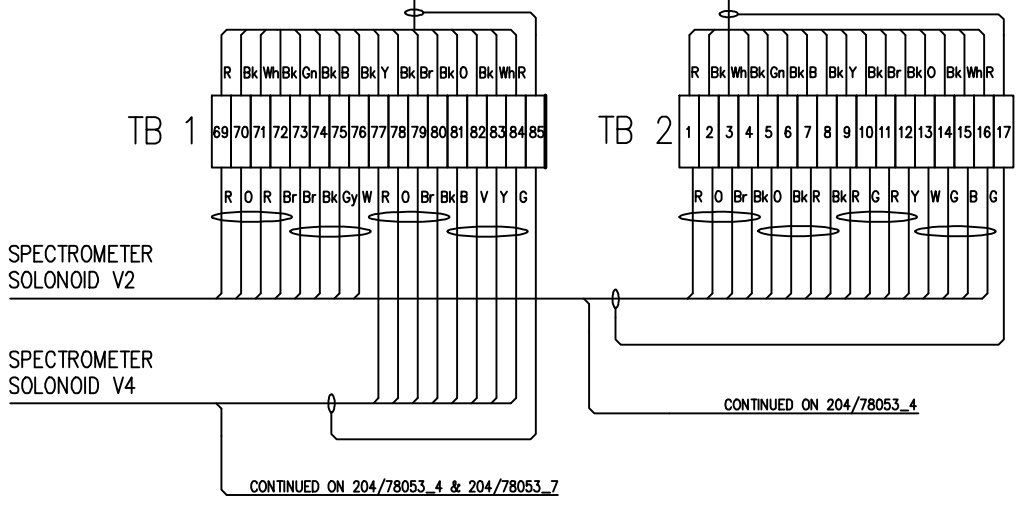
SD 01 (5)
SD 27 (6)
SD 08 (7)
SD 14 (8)

SPT/48 8 twpr 7/0.2

SILICON DIODE SENSOR
SKT V2 & V4

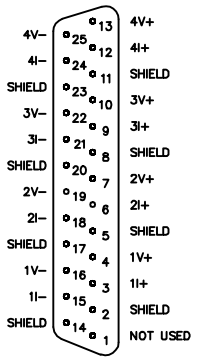
SPT/49 8 twpr 7/0.2

SILICON DIODE SENSOR
SKT V2

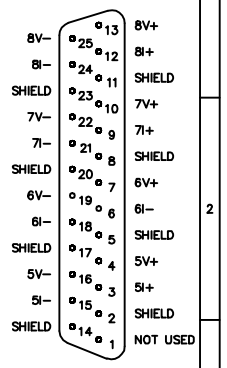


TEMPERATURE MONITOR UNIT (TYPICAL)

INPUTS 1-4



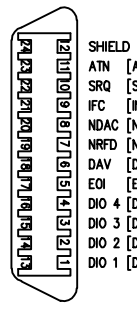
INPUTS 5-8



RELAYS 30VDC 5A

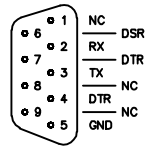
1	RELAY 1 NC	15	RELAY 5 NC
2	RELAY 1 COM	16	RELAY 5 COM
3	RELAY 1 NO	17	RELAY 5 NO
4	RELAY 2 NC	18	RELAY 6 NC
5	RELAY 2 COM	19	RELAY 6 COM
6	RELAY 2 NO	20	RELAY 6 NO
7	RELAY 3 NC	21	RELAY 7 NC
8	RELAY 3 COM	22	RELAY 7 COM
9	RELAY 3 NO	23	RELAY 7 NO
10	RELAY 4 NC	24	RELAY 8 NC
11	RELAY 4 COM	25	RELAY 8 COM
12	RELAY 4 NO	26	RELAY 8 NO
13	ANALOG 1 SIG	27	ANALOG 2 SIG
14	ANALOG 1 GND	28	ANALOG 2 GND
BLK 1		BLK 2	

IEEE-488 INTERFACE



GND [LOGIC GROUND]	SHIELD
GND 11 [GND WIRE FOR ATN]	ATN [ATTENTION]
GND 10 [GND WIRE FOR SRQ]	SRQ [SERVICE REQUEST]
GND 9 [GND WIRE FOR IFC]	IFC [INTERFACE CLEAR]
GND 8 [GND WIRE FOR NDAC]	NDAC [NOT DATA ACCEPTED]
GND 7 [GND WIRE FOR NRFD]	NRFD [NOT READY FOR DATA]
GND 6 [GND WIRE FOR DAV]	DAV [DATA VALID]
REN [REMOTE ENABLE]	EOI [END OR IDENTIFY]
DIO 8 [DATA I/O LINE 8]	DIO 4 [DATA I/O LINE 4]
DIO 7 [DATA I/O LINE 7]	DIO 3 [DATA I/O LINE 3]
DIO 6 [DATA I/O LINE 6]	DIO 2 [DATA I/O LINE 2]
DIO 5 [DATA I/O LINE 5]	DIO 1 [DATA I/O LINE 1]

SERIAL I/O



KEY

NC – NOT CONNECTED

NOTES

1) UNUSED CORES TO BE SLEEVED OFF AND TIED BACK

REF DRAWINGS

204/78050 SPECTROMETER TEST RACK BLOCK DIAGRAM
204/78055 SPECTROMETER TEST RACK CANBUS/VME NETWORK
204/78057 PSU/COMMS/SIGNAL CONVERTER WIRING DIAGRAM
204/78059 SPECTROMETER TEST RACK CANBUS WIRING DIAGRAM
204/78052 SPECTROMETER TEST RACK POWER DIST DIAGRAM
204/78056 SPECTROMETER TEST RACK DAC/ADC WIRING DIAGRAM
204/78058 SPECTROMETER TEST RACK RS232 WIRING DIAGRAM

SCALE 0

ALL DIMENTIONS IN MILLIMETERS UNLESS OTHERWISE STATED

DRN DATE	P.A.D. 15/10/11	SCIENCE AND TECHNOLOGY FACILITIES COUNCIL DARESBURY LABORATORY CHESHIRE
CKD DATE	I.M. 27/03/12	TITLE MICE COOLING CHANNEL TEST RACK EQUIPMENT WIRING DIAGRAM
CERT DATE		
APPD DATE	I.M. 27/03/12	DRG No A0-204/78053 SHT 5 OF 16 ISSUE A CAD PART No 204/78053-5

DRAWING LIST:– DL 204/78000

CONTRACTORS COMPANY
CONTRACTORS DRG No

FIRST ISSUE A

ORIGINAL FRAME SIZE 1140mm X 790mm