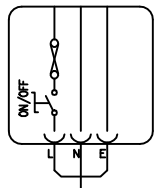
DRG No A0-204/78053 SHT 4 OF 16

DRAWING PRACTICE TO BS308 – THIRD ANGLE PROJECTION

LAKESHORE MODEL 218 TEMPERATURE MONITOR UNIT 2

POWER

MAINS INPUT

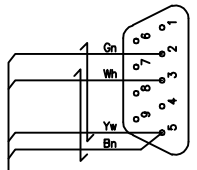


IEC

RACK DIST. BOARD
VIA IEC BLOCK SPT/P04-4
SEE DWG 204/78052 3C 1.0mm² PVC

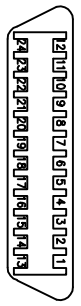
SERIAL I/O

RS-232



RS232 COMMS WIRING DIAGRAM SPT/C12
SEE DRG 204/78058 SHT 1 2 TW PR LAPP 2x2x0.25

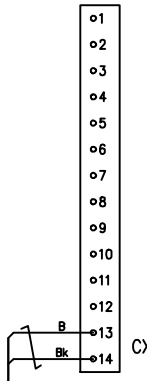
IEEE-488 INTERFACE



NOT USED

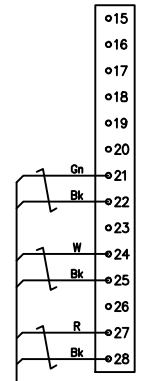
RELAYS 30VDC 5A

BLK 1



CX11 ANALOGUE

BLK 2



CX12 TRIP

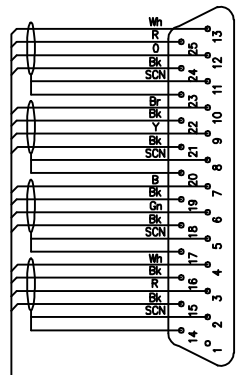
CX11 TRIP

CX12 ANALOGUE

RELAY TRIPS TO TB5 48-51 SPT/A3
SEE DRG 204/78059 SHT 1 PART 8Twpr
ANALOGUE TO TB 3 1-4 ADC 1
SEE DRG 204/78056

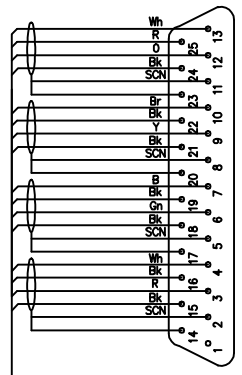
INPUTS

1-4



SD 15 (1)
SD 16 (2)
SD 05 (3)
SD 06 (4)

5-8



CX 09 (5)
CX 10 (6)
CX 12 (7)
CX 11 (8)

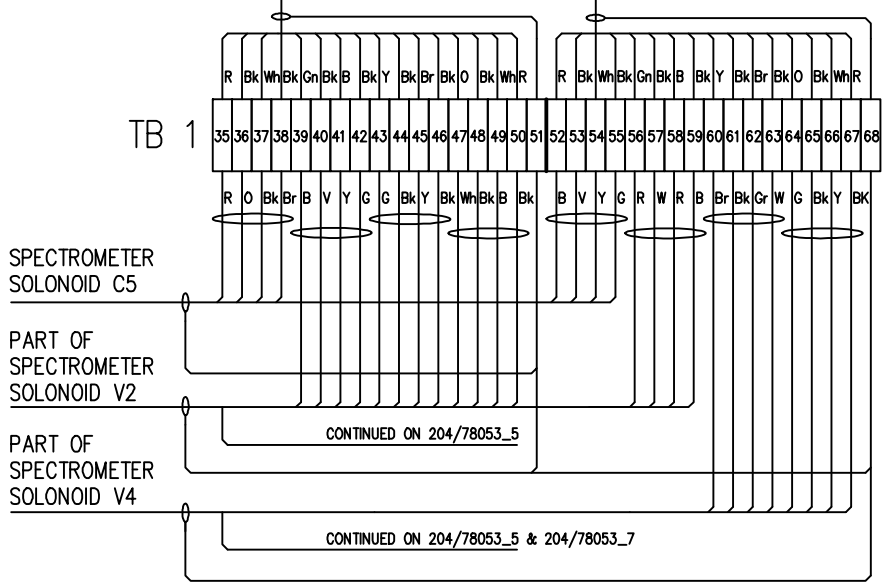
SPT/46 8 TwPr 7/0.2

SILICON DIODE SENSOR
SKT C5/V2

SPT/47 8 TwPr 7/0.2

CERNOX SENSOR
SKT C5/V2/V4

TB 1

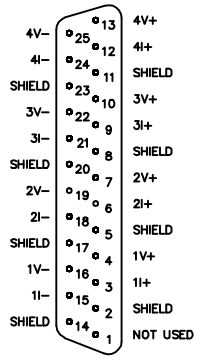


NOTES

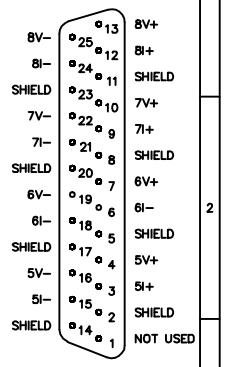
1) UNUSED CORES TO BE SLEEVED OFF AND TIED BACK

TEMPERATURE MONITOR UNIT (TYPICAL)

INPUTS 1-4



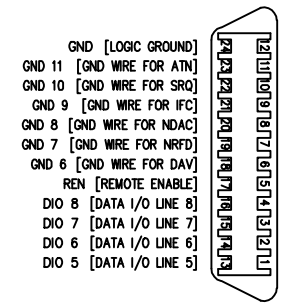
INPUTS 5-8



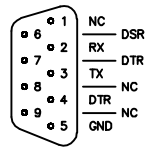
RELAYS 30VDC 5A

01	RELAY 1 NC	15	RELAY 5 NC
02	RELAY 1 COM	16	RELAY 5 COM
03	RELAY 1 NO	17	RELAY 5 NO
04	RELAY 2 NC	18	RELAY 6 NC
05	RELAY 2 COM	19	RELAY 6 COM
06	RELAY 2 NO	20	RELAY 6 NO
07	RELAY 3 NC	21	RELAY 7 NC
08	RELAY 3 COM	22	RELAY 7 COM
09	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



SERIAL I/O



KEY

NC – NOT CONNECTED

SCALE 0

ALL DIMENTIONS IN MILLIMETERS UNLESS OTHERWISE STATED

DRN	P.A.D.	SCIENCE AND TECHNOLOGY FACILITIES COUNCIL
DATE	15/10/11	DARESBURY LABORATORY CHESHIRE
CKD	I.M.	TITLE
DATE	27/03/12	MICE COOLING CHANNEL TEST RACK EQUIPMENT WIRING DIAGRAM
CERT		
DATE		
APPD	I.M.	DRG No A0-204/78053 SHT 4 OF 16 — ISSUE A
DATE	27/03/12	CAD PART No 204/78053-4

DRAWING LIST:– DL 204/78000

CONTRACTORS COMPANY
CONTRACTORS DRG No

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

A FIRST ISSUE

ORIGINAL FRAME SIZE 1140mm X 790mm