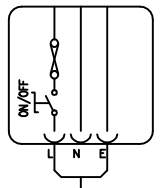
DRG No A0-204/78053 SHT 3 OF 16

DRAWING PRACTICE TO BS308 – THIRD ANGLE PROJECTION

# LAKESHORE MODEL 218 TEMPERATURE MONITOR UNIT 1

## POWER

MAINS INPUT

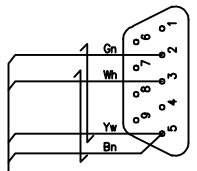



IEC

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

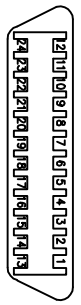
## SERIAL I/O

RS-232




RS232 COMMS WIRING DIAGRAM SPT/C11
SEE DRG 204/78058 SHT 1 2 TW PR LAPP 22c0.25

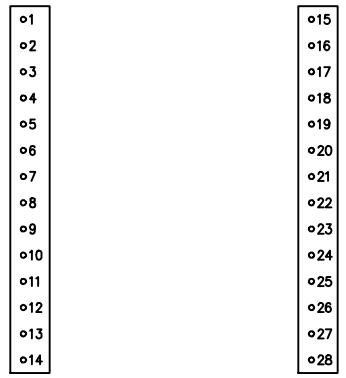
## IEEE-488 INTERFACE



NOT USED

## RELAYS 30VDC 5A

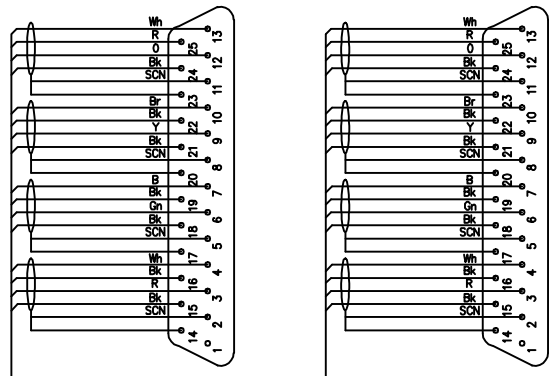
BLK 1 BLK 2



NOT USED

## INPUTS

1–4 5–8



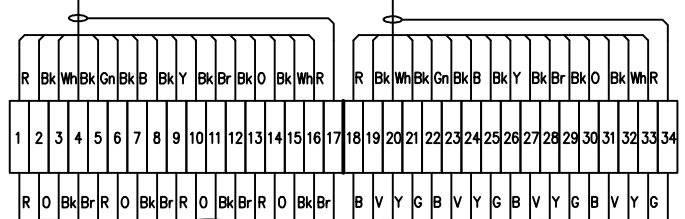
SD 10 (1)
SD 11 (2)
SD 12 (3)
SD 13 (4)

CX 05 (5)
CX 06 (6)
CX 07 (7)
CX 08 (8)

SPT/44 8 TWPR 7/0.2
SILICON DIODE SENSOR
SKT C1/2/3/4

SPT/45 8 TWPR 7/0.2
CERNOX SENSOR
SKT C1/2/3/4

TB 1




SPECTROMETER SOLONOID C1

SPECTROMETER SOLONOID C2

SPECTROMETER SOLONOID C3

SPECTROMETER SOLONOID C4

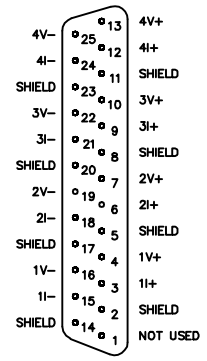
NOTES

1) UNUSED CORES TO BE SLEEVED OFF AND TIED BACK

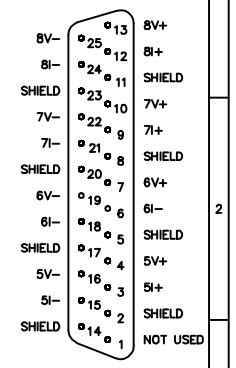
REF DRAWINGS
204/78050 SPECTROMETER TEST RACK BLOCK DIAGRAM
204/78055 SPECTROMETER TEST RACK CANBUS/VME NETWORK
204/78057 PSU/COMMS/SIGNAL CONVERTER WIRING DIAGRAM
204/78059 SPECTROMETER TEST RACK CANBUS WIRING DIAGRAM
204/78052 SPECTROMETER TEST RACK POWER DIST DIAGRAM
204/78056 SPECTROMETER TEST RACK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

## TEMPERATURE MONITOR UNIT (TYPICAL)

INPUTS 1–4



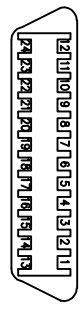

INPUTS 5–8




RELAYS 30VDC 5A

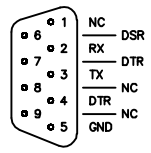
| | | | |
|---|---|---|---|
| 01 | RELAY 1 NC | 15 | RELAY 5 NC |
| 02 | RELAY 1 COM | 16 | RELAY 5 COM |
| 03 | RELAY 1 NO | 17 | RELAY 5 NO |
| 04 | RELAY 2 NC | 18 | RELAY 6 NC |
| 05 | RELAY 2 COM | 19 | RELAY 6 COM |
| 06 | RELAY 2 NO | 20 | RELAY 6 NO |
| 07 | RELAY 3 NC | 21 | RELAY 7 NC |
| 08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



| | | | |
|---|---|---|---|
| | | 12 | SHIELD |
| GND | [LOGIC GROUND] | 11 | SHIELD |
| GND 11 | [GND WIRE FOR ATN] | 10 | ATN [ATTENTION] |
| GND 10 | [GND WIRE FOR SRQ] | 9 | SRQ [SERVICE REQUEST] |
| GND 9 | [GND WIRE FOR IFC] | 8 | IFC [INTERFACE CLEAR] |
| GND 8 | [GND WIRE FOR NDAC] | 7 | NDAC [NOT DATA ACCEPTED] |
| GND 7 | [GND WIRE FOR NRFD] | 6 | NRFD [NOT READY FOR DATA] |
| GND 6 | [GND WIRE FOR DAV] | 5 | DAV [DATA VALID] |
| REN | [REMOTE ENABLE] | 4 | EOI [END OR IDENTIFY] |
| DIO 8 | [DATA I/O LINE 8] | 3 | DIO 4 [DATA I/O LINE 4] |
| DIO 7 | [DATA I/O LINE 7] | 2 | DIO 3 [DATA I/O LINE 3] |
| DIO 6 | [DATA I/O LINE 6] | 1 | 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

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 3 OF 16 — ISSUE A |
| DATE | 27/03/12 | CAD PART No 204/78053-3 |

DRAWING LIST:– DL 204/78000

CONTRACTORS COMPANY
CONTRACTORS DRG No

FIRST ISSUE A

ORIGINAL FRAME SIZE 1140mm X 790mm