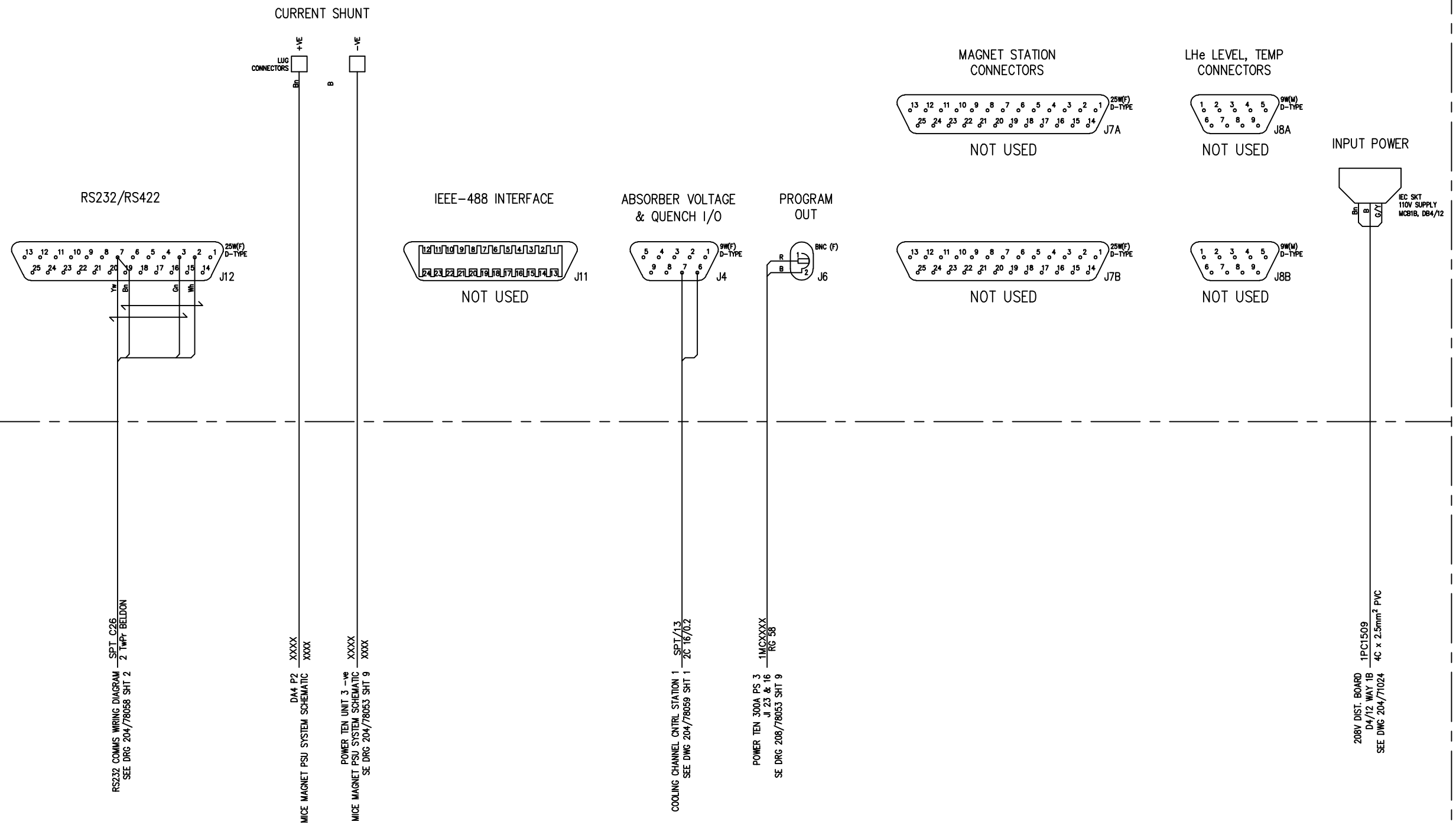
DRG No AO- 204/78053 SHT 14 OF 16

AMI 420 CONTROLLER UNIT 3



ABSORBER VOLTAGE QUENCH I/O

Pin	Signal
5	EXT. POWER SUPPLY
9	TTL O/P (SPARE)
4	EXT. POWER SUPPLY
8	+5Vdc
3	GROUND
7	QUENCH I/P–
2	QUENCH O/P–
6	QUENCH I/P+
1	QUENCH O/P+

J4

RS 232/RS422

Pin	Signal	Pin	Signal
13	NC/CTS–	25	NC/NC
12	NC/RTS–	24	NC/NC
11	NC/DSR–	23	NC/NC
10	NC/NC	22	RI/NC
9	NC/NC	21	NC/TX–
8	DCD/DCD+	20	DTR/DTR+
7	GND/GND	19	NC/NC
6	DSR/DRS+	18	NC/NC
5	CTS/CTS+	17	NC/NC
4	RTS/RTS+	16	NC/RX–
3	RD/RX+	15	NC/DTR–
2	TD/TX+	14	NC/DCD–
1	GND/GND		

J12

MAGNET STATION CONNECTORS

Pin	Signal	Pin	Signal
13	SPARE	25	SPARE
12	MAGNET VOLT TAP V– (B)	24	SPARE
11	MAGNET VOLT TAP V+ (Y)	23	SPARE
10	PERSISTANT SW HEATER (Bk)	22	SPARE
9	PERSISTANT SW HEATER (R)	21	SPARE
8	TEMP SENSOR V+ (B)	20	SPARE
7	TEMP SENSOR V– (Y)	19	EXT. SW HEATER CURRENT
6	TEMP SENSOR I– (Bk)	18	EXT. SW HEATER CURRENT
5	TEMP SENSOR I+ (R)	17	SPARE
4	LHe SENSOR V+ (B)	16	SPARE
3	LHe SENSOR V– (Y)	15	SPARE
2	LHe SENSOR I– (Bk)	14	SPARE
1	LHe SENSOR I+ (R)		

J7A/B

LHe LEVEL, TEMP CONNECTORS

Pin	Signal	Pin	Signal
1	LHe SENSOR I+ (R)	6	LHe SENSOR V– (Y)
2	TEMP SENSOR I+ (R)	7	LHe SENSOR I– (Bk)
3	TEMP SENSOR V– (Y)	8	LHe SENSOR V+ (B)
4	TEMP SENSOR I– (Bk)	9	NC
5	TEMP SENSOR V+ (B)		

J8A/B

IEEE-488 INTERFACE

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

KEY

NC – NOT CONNECTED

SCALE 0

ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE STATED

DRN	P.A.D.	SCIENCE AND TECHNOLOGY FACILITIES COUNCIL DARESBURY LABORATORY CHESHIRE
DATE	21/03/12	
CKD	I.M.	TITLE MICE COOLING CHANNEL TEST RACK EQUIPMENT WIRING DIAGRAM
DATE	27/03/12	
CERT		
DATE		
APPD	I.M.	DRG No AO-204/78053 SHT 14 OF 16 ISSUE
DATE	27/03/12	CAD PART No

DRAWING LIST:–

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