





**SIEMENS**

**SIT - ULTIMO - INDUSTRIAL ELECTRONICS S-102 PLC TRAINING UNIT**

**POWER** (Red switch)

**INPUTS**

0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.0
1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0

**OUTPUT WORD** (Digital display)

**1W 124**

The device is a PLC training unit with a Siemens PLC module inserted. It features a power switch, a set of input terminals (0.0-0.7 and 1.0-1.7), and an output word display. The Siemens module has a green display and various connection points.

**digital**

**D**

The device is a computer monitor on a base. The monitor has a blue 'D' label and a small logo. The base has a speaker grille and a power button. A power supply unit is connected to the base.

**digital**

The device is a keyboard with a numeric keypad. It has a blue mouse pad to the right. The keyboard has a 'digital' logo on the right side.

Wire Control  
table and data



ELECT ENG CERT NPS

POWER SUPPLY UNIT PS 150E

AMPS

EC CONT. 03 244

EC CONT. 03 085

H-2-30

SIEMENS

Systeme Elektronik  
USB-Adapter  
für MPI Bus  
LED an LED aus  
Power Supply  
Actual Current  
Control Data  
CE  
SW7-USB  
100-250 V/2A  
100 W  
F01-100

POWER

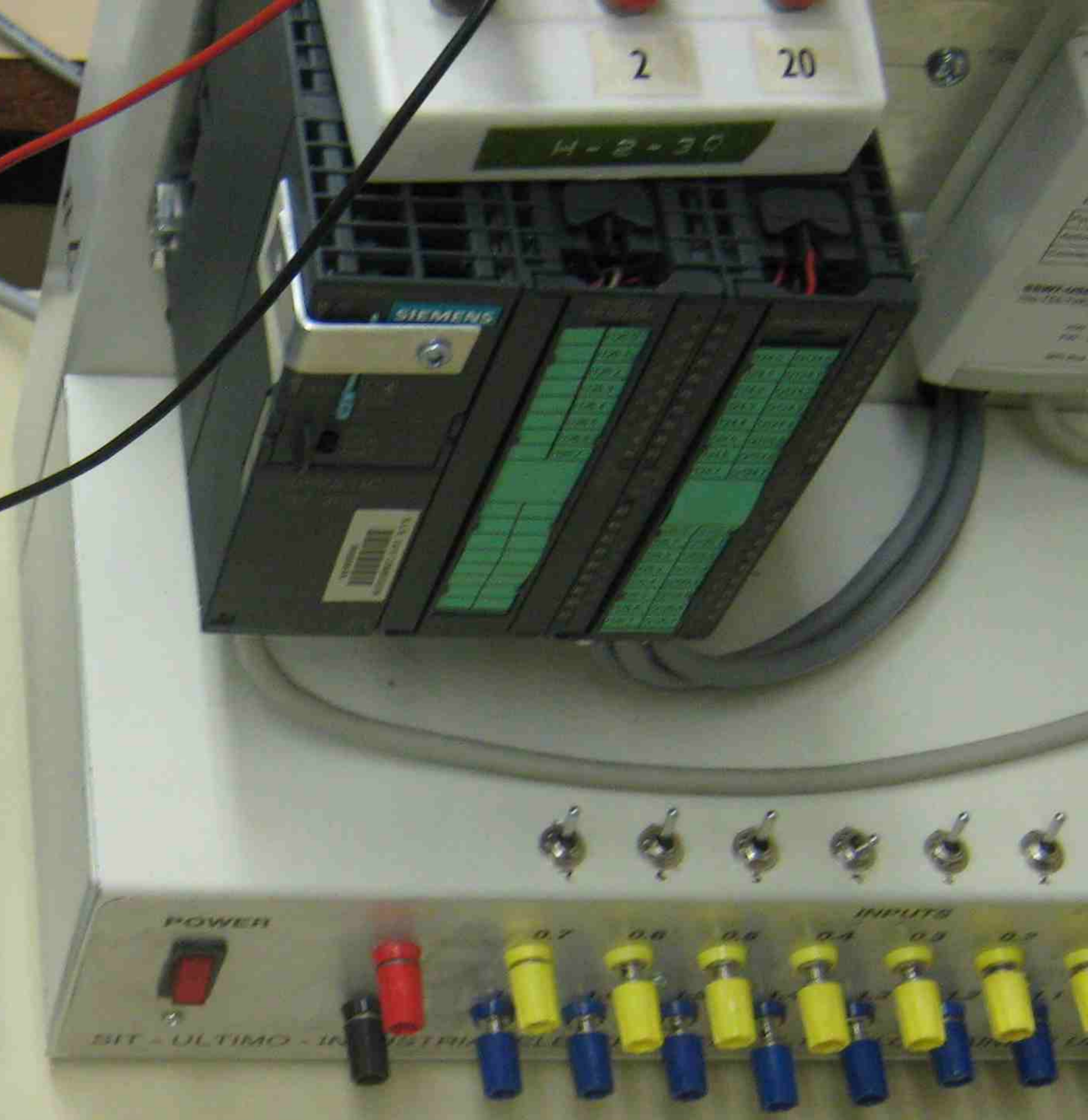
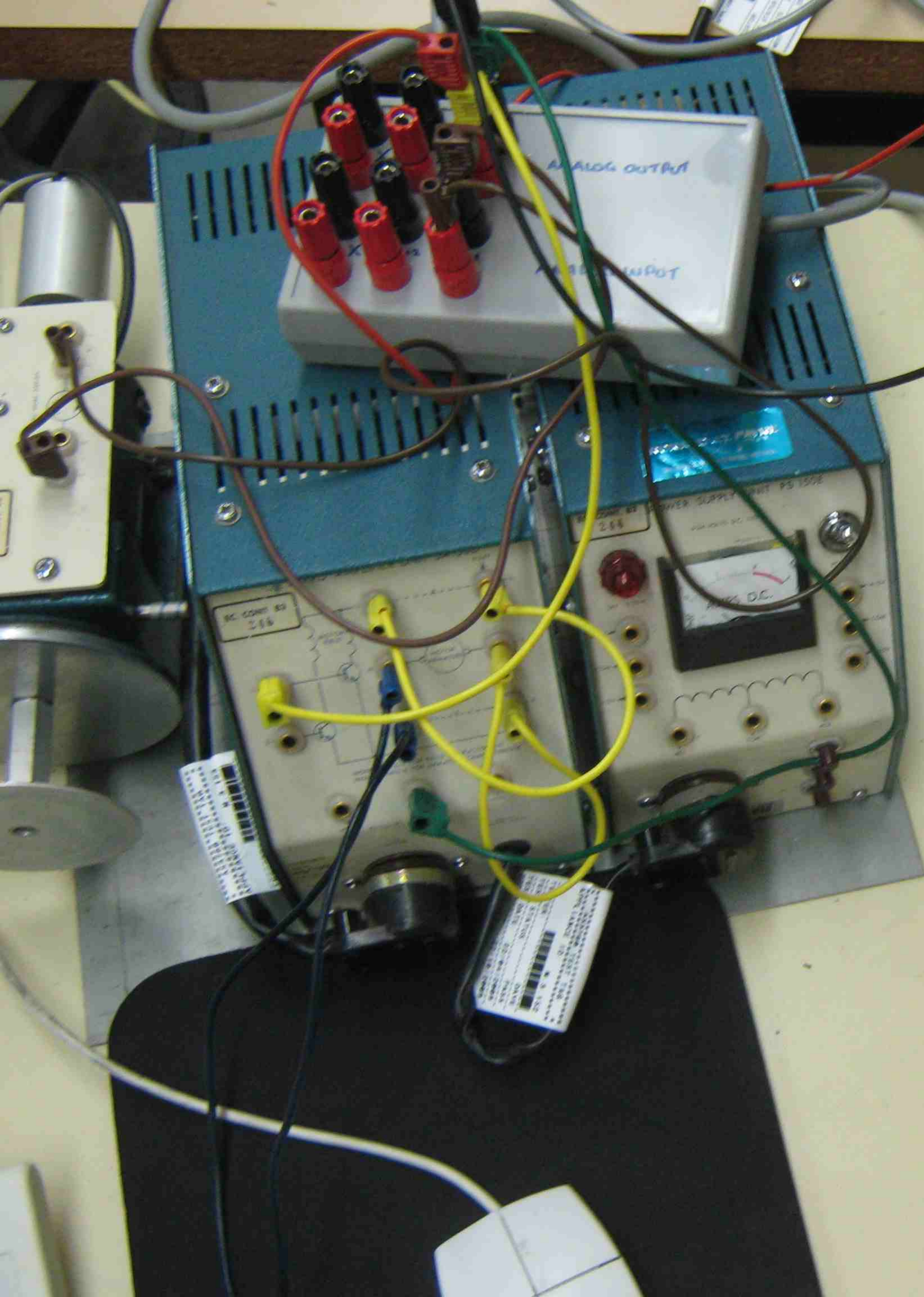
INPUTS

0.7 0.6 0.5 0.4 0.3 0.2 0.1 0.0

1.7 1.6 1.5 1.4 1.3 1.2 1.1 1.0

SIT - ULTIMO - INDUSTRIAL ELECTRONICS - 102 PLC TRAINING UNIT







SIEMENS SINEC L1 NETWORK A B

SIEMENS SINEC L1 BUS TERMINAL

SIEMENS SINEC L1 NETWORK A B

SIEMENS SINEC L1 BUS TERMINAL

SIEMENS IBO QB1 QB5 QB5

SIEMENS IBO QB1 QB5 QB5

ANALOG MONITOR PANEL

4 - 20mA

MONITOR LOCAL EXTEND INPUTS

ANALOG MONITOR PANEL

4 - 20mA

MONITOR LOCAL EXTEND INPUTS

DIGITAL MONITOR PANEL

INPUTS

OUTPUTS

7W32 QW32

DIGITAL MONITOR PANEL

INPUTS

OUTPUTS

7W32 QW32

SIEMENS

SIEMENS



**MINI-LAB**  
MODEL 6038  
BWD

**FUNCTION GENERATOR**

**VOLTAGE/OPERATIONAL AMPLIFIER**

**BI-POLAR POWER SUPPLY**

**REGULATED POWER SUPPLY**

**PERINI SCOTT**

**REGULATED POWER SUPPLY**

TYPE JT200 FUSE 1A

VOLTAGE COARSE FINE

CURRENT

MANUFACTURED BY PERINI & SCOTT (A ASIA) PTY LTD WAITARA NSW

**EMTEK** 520

**VERTICAL**

**TRIGGER**

MODEL 60M 8034

240V AC

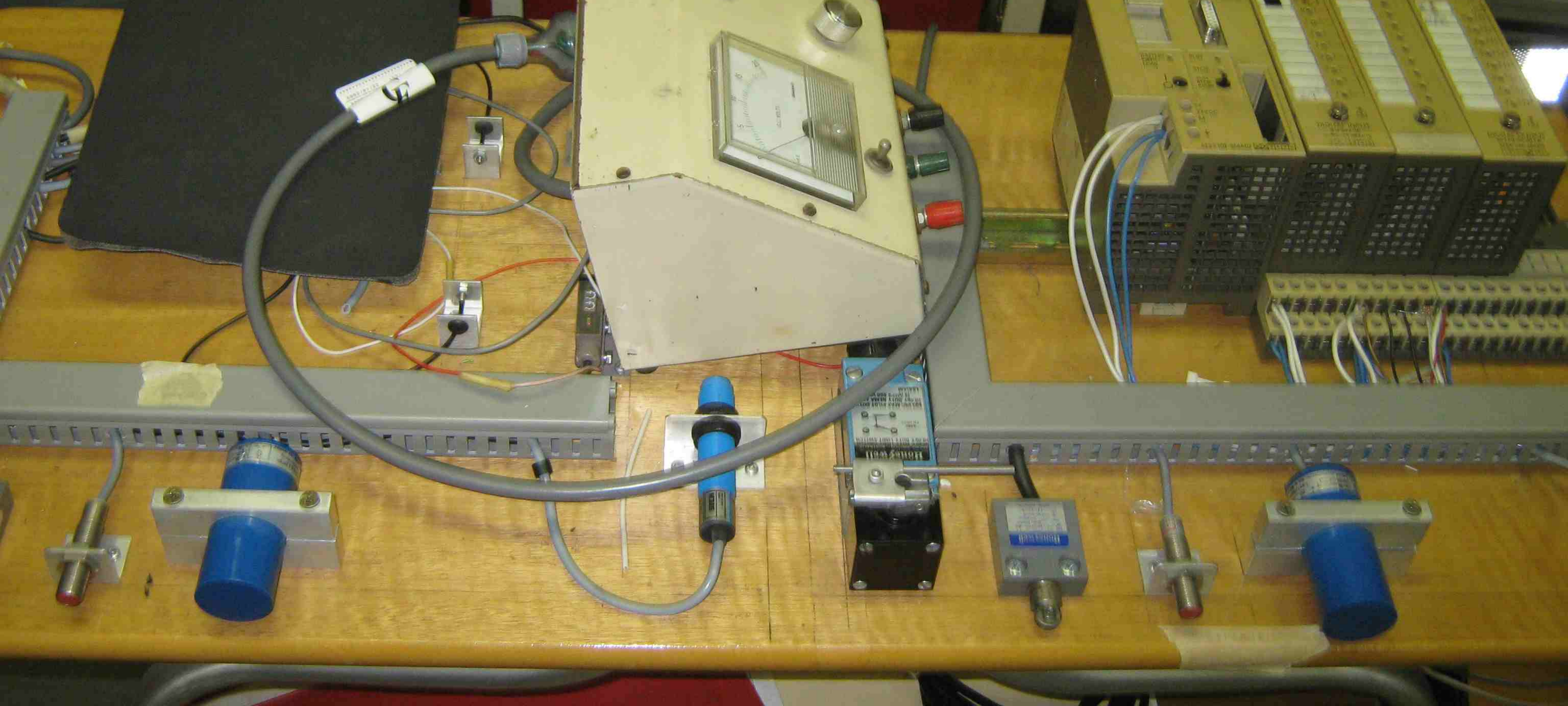
CIRCUIT BREAKERS







ELECT. ENGG.







**EMC**  
COMPACT 5 CNC

G00	G01	G02	G03	G20	G21	G22	G85	G66	
INF	DEL	REV	FWD	INP	P...	FWD	P...	INP	FWD



- G00	- G23	- G78
- G01	- G24	- G84
- G02	- G26	- G90
- G03	- G33	- G91
- G20	- G64	- G92
- G21	- G65	mm/min - G94
- G22	- G66	mm/min - G95

- INP	- DEL	- INP
- DEL	- INP	- REV
- REV	- INP	- FWD
- FWD	- INP	- REV
- INP	- INP	- INP
- INP	- DEL	- DEL

- G65	- INP	P..	- INP
- FWD	- FWD	P..	- INP
- INP	- INP	+	- DEL
- FWD	- FWD		

inch mm

1

mm/min.

mm/min.

25 50 100 200 300 400

7 8 9

4 5 6

1 2 3

- 0 →



**CNC**

COMPUTER NUMERICALLY CONTROLLED

**AMCO**  
**COMPACT 5 CNC**  
 Made in Austria

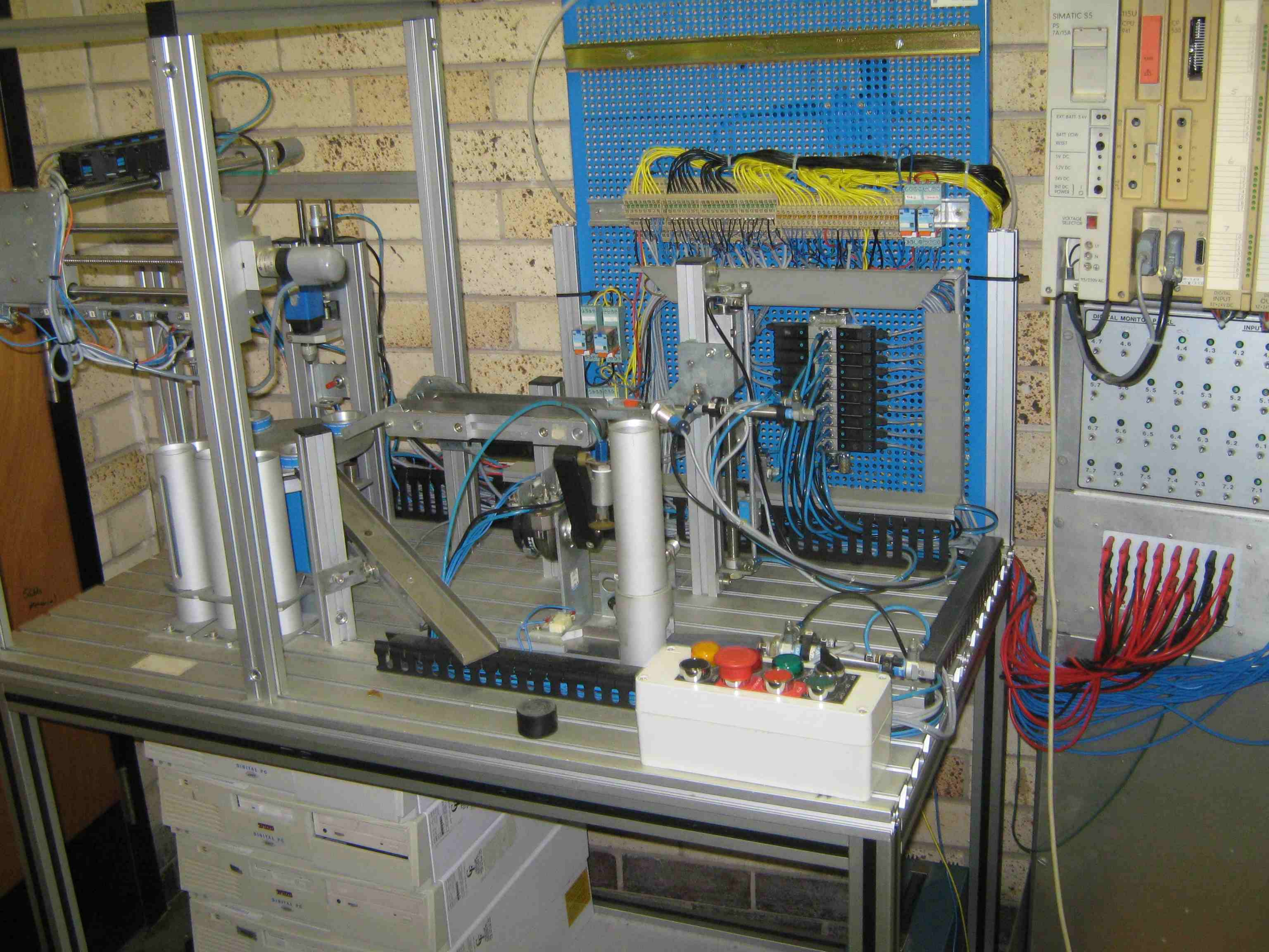
-- CENTRE CABLE HERE --











SIMATIC 55  
PS 7A/15A  
CPU 314C-2  
DI 24/DO 16

EXT BATT 24V  
BATT LED  
RESIST  
5V DC  
52V DC  
14V DC  
INT DC POWER

VOLTAGE SELECTOR  
L1  
N  
PE/230V AC

DIGITAL INPUT 12x24V DC

DIGITAL MONITOR PANEL

4.7	4.6	4.4	4.3	4.2	4.1
5.7	5.6	5.5	5.4	5.3	5.2
6.7	6.6	6.5	6.4	6.3	6.2
7.7	7.6	7.5	7.4	7.3	7.2
7.1	7.0	6.9	6.8	6.7	6.6

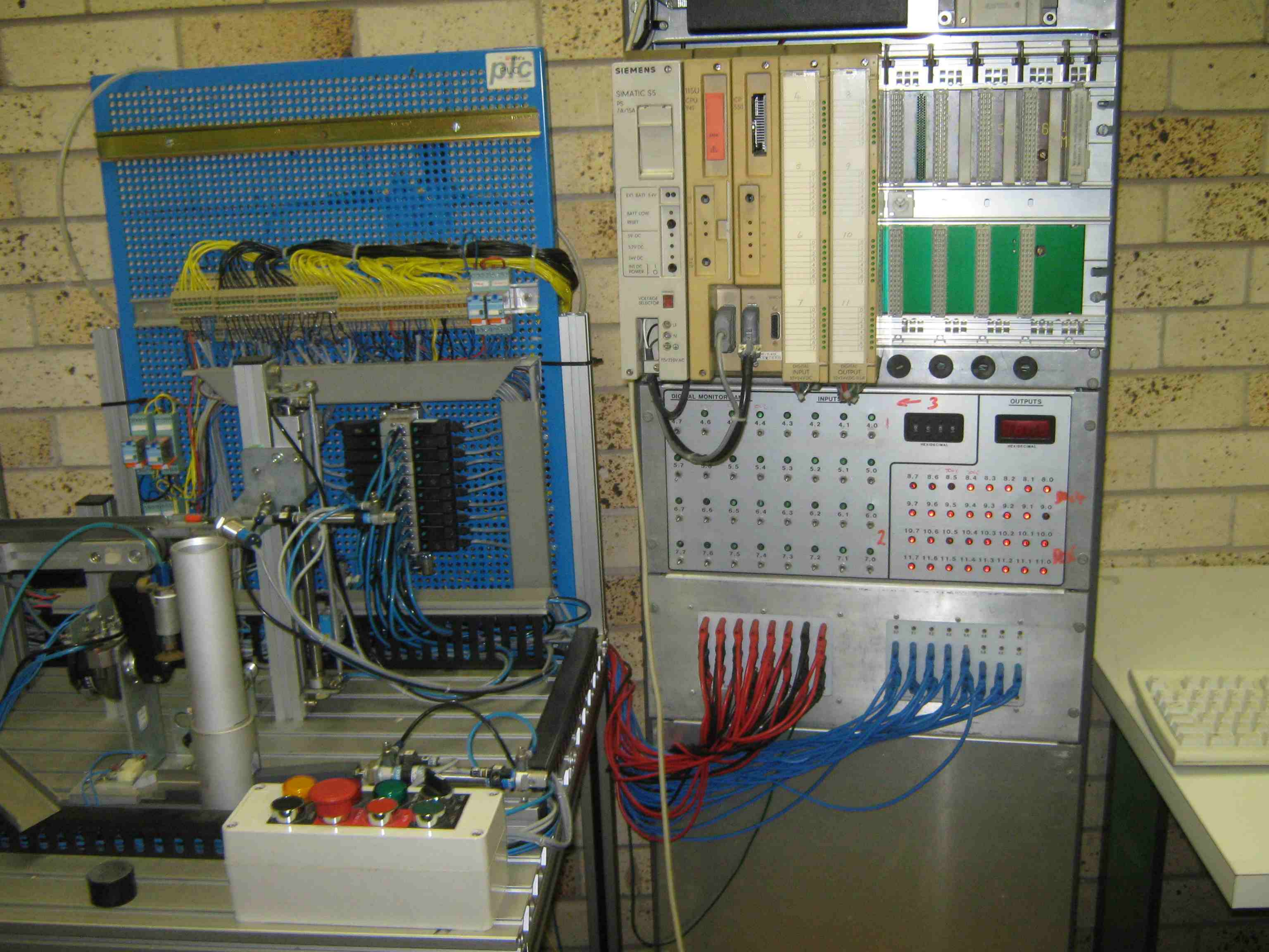
INPUT

Bundle of red and blue cables connected to the digital monitor panel.

DIGITAL PC 5000  
DIGITAL PC 5000  
DIGITAL PC 5000

White control box with several push buttons (red, green, yellow, black) and a small display.





SIEMENS  
SIMATIC S5  
PS 1A/15A  
EX. BATT. 1-1V  
BATT. COW. RESET  
5V DC  
12V DC  
24V DC  
INT. DC POWER

115U CPU 141  
CP 530  
6  
7  
DIGITAL INPUT 12V/24VDC  
DIGITAL OUTPUT 12V/24VDC

DIGITAL MONITOR  
INPUTS  
4.7 4.6 4.5 4.4 4.3 4.2 4.1 4.0  
5.7 5.6 5.5 5.4 5.3 5.2 5.1 5.0  
6.7 6.6 6.5 6.4 6.3 6.2 6.1 6.0  
7.7 7.6 7.5 7.4 7.3 7.2 7.1 7.0  
OUTPUTS  
8.7 8.6 8.5 8.4 8.3 8.2 8.1 8.0  
9.7 9.6 9.5 9.4 9.3 9.2 9.1 9.0  
10.7 10.6 10.5 10.4 10.3 10.2 10.1 10.0  
11.7 11.6 11.5 11.4 11.3 11.2 11.1 11.0

White control box with buttons: yellow, red, green, black, red, green, black.



101  
PAU6L  
#2

SINEC L1 NETWORK  
A  
B

SIEMENS  
SINEC L1  
SINATIC 50 07 771  
800 TERMINAL  
405 771-0800  
MADE IN GERMANY

0A 0 1A 1B 2A 2B 3A 3B 4A 4B

SIEMENS  
SINATIC 50 07 771  
800 TERMINAL  
405 771-0800  
MADE IN GERMANY

0A 0 1A 1B 2A 2B 3A 3B 4A 4B

SIEMENS  
SINATIC 50 07 771  
800 TERMINAL  
405 771-0800  
MADE IN GERMANY

0A 0 1A 1B 2A 2B 3A 3B 4A 4B

MONITOR  
DC VOLTS

± 10 Volts

MONITOR  
DC VOLTS

ANALOG MONITOR PANEL

MIN MAX MIN MAX MIN MAX

0 1 2 3

LOCAL EXTEND

OUTPUTS

MONITOR

1 0 0

± 10 Volts

MONITOR  
DC VOLTS

DIGITAL MONITOR PANEL

INPUTS

2.7	2.6	2.5	2.4	2.3	2.2	2.1	2.0
3.7	3.6	3.5	3.4	3.3	3.2	3.1	3.0

OUTPUTS

4.7	4.6	4.5	4.4	4.3	4.2	4.1	4.0
5.7	5.6	5.5	5.4	5.3	5.2	5.1	5.0

1-1 0+

1 0 0 0

HEX/DECIMAL

101 PAU6L #2

0+ 0- 1+ 1- 2+ 2- 3+ 3-

100 1 NET 60 011 03



**INPUTS**

HEXIDECIMAL **JW32**

HEXIDECIMAL **QW32**

HEXIDECIMAL

2.2	2.1	2.0	4.7	4.6	4.5	4.4	4.3	4.2	4.1	4.0
3.2	3.1	3.0	5.7	5.6	5.5	5.4	5.3	5.2	5.1	5.0

5+ 0+ 5- 0-

24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0

GROUND

**PETRA**

66

CLIO

The PETRA spectrometer is a large red mechanical assembly mounted on a white table. It consists of a vertical column and horizontal arms. A red motor is visible on the left side. A red bin and a green bin are placed on the table in front of the spectrometer. A red power supply unit is connected to the spectrometer with various colored cables.

**SIT ULTIMATE**

TECHNOLOGY

10

V A V A

V A

V A

The SIT ULTIMATE power supply unit is a grey metal device with a perforated top. It features four analog meters on the front panel, two labeled 'V' and two labeled 'A'. There are several terminals and connectors on the front, including a red terminal and a black terminal. A yellow cable is connected to one of the terminals.





Maximum Input to Pressure Regulator - 6 Bar (90 PSI)  
Maximum Output Pressure Regulator - 40 PSI



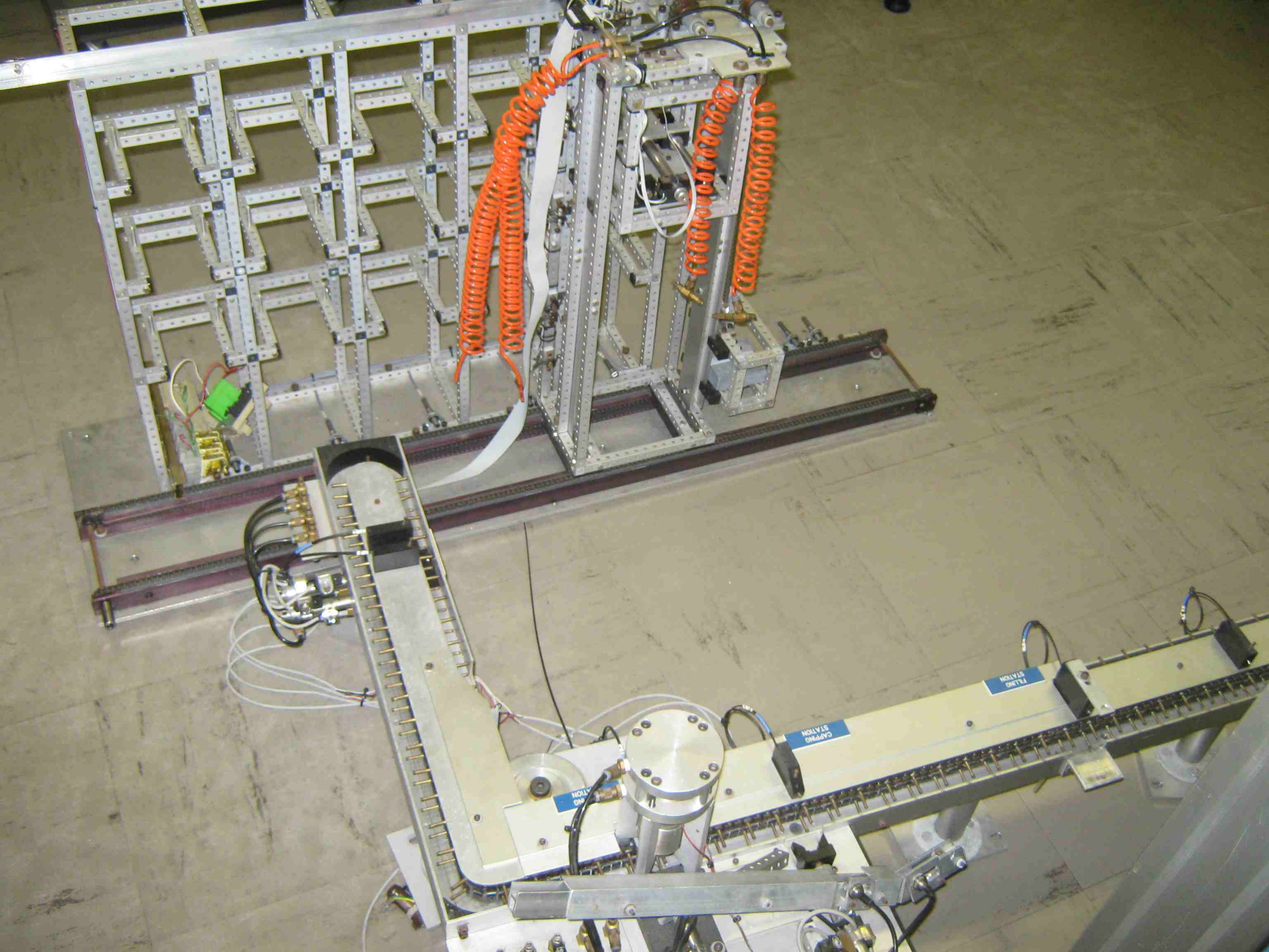
Cylinder B  
Motor 1

S	333	AS3
CS	334	AS4
AP	335	AS5
PP	336	
DE	337	

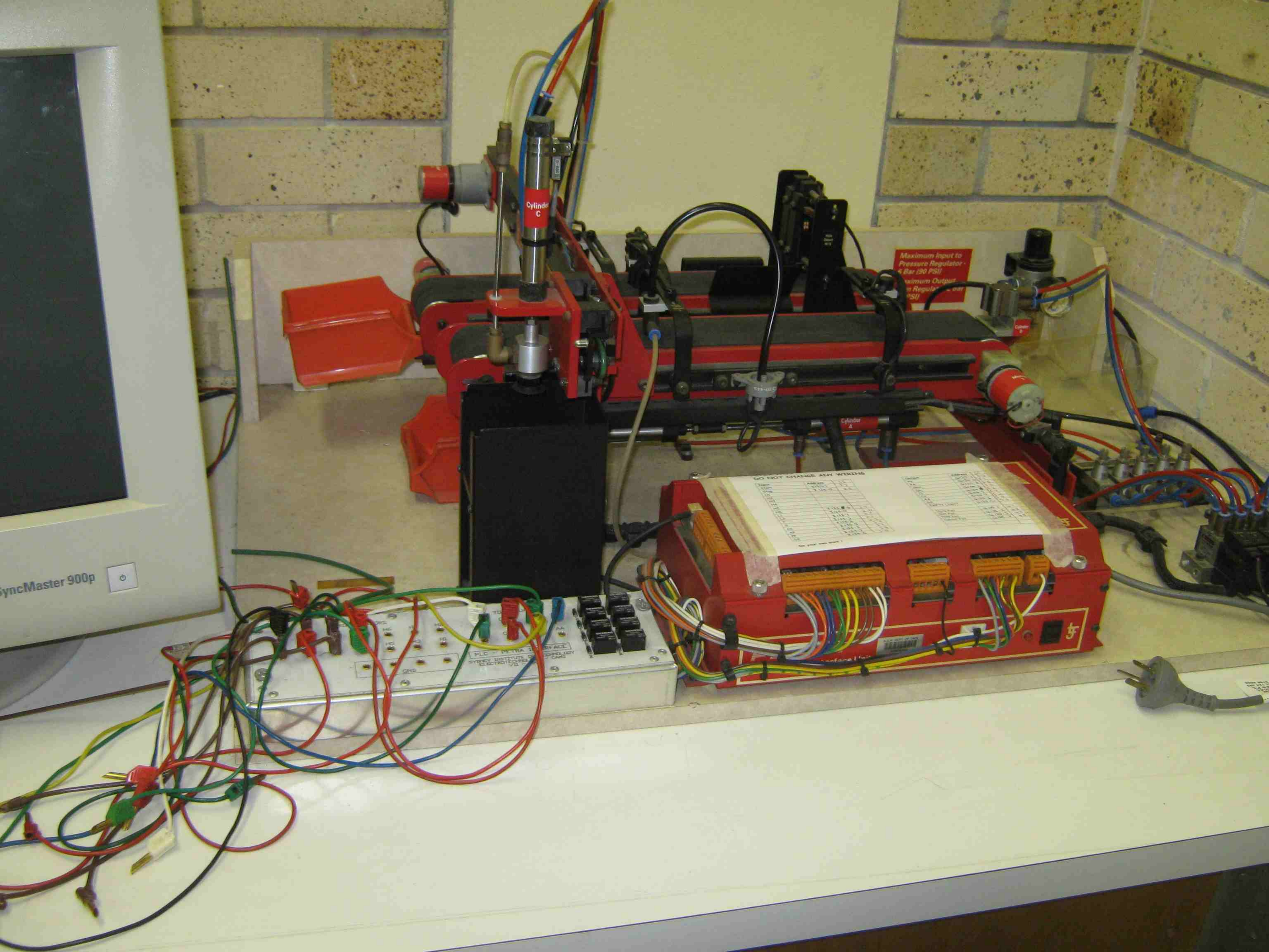
Do your own work!

INTERFACE  
OF TECHNOLOGY  
1998















0.1A 0.1A 1A 1A 2A 2A 3A 3A 4A 4A

0.1A 0.1A 1A 1A 2A 2A 3A 3A 4A 4A

**SIEMENS** SIMATIC 5A-5EU

ANALOG INPUT 4x 10V (RES-168-1MCH)

DIGITAL INPUT 8x 24VDC (IB2)

DIGITAL INPUT 8x 24VDC (IB3)

DIGITAL OUTPUT 8x 24VDC (QBS)

DIGITAL OUTPUT 8x 24VDC (QBS)

**ANALOG MONITOR PANEL**

± 10 Volts

MONITOR

DC VOLTS

0 1 2 3

LOCAL EXTEND

MAX MIN MAX MIN MAX

**DIGITAL MONITOR PANEL**

INPUTS

2.7	2.6	2.5	2.4	2.3	2.2	2.1	2.0
3.7	3.6	3.5	3.4	3.3	3.2	3.1	3.0

OUTPUTS

HEXIDECIMAL

0 0 0 0

8W32

4.7	4.6	4.5	4.4	4.3	4.2	4.1	4.0
5.7	5.6	5.5	5.4	5.3	5.2	5.1	5.0

5-0 0

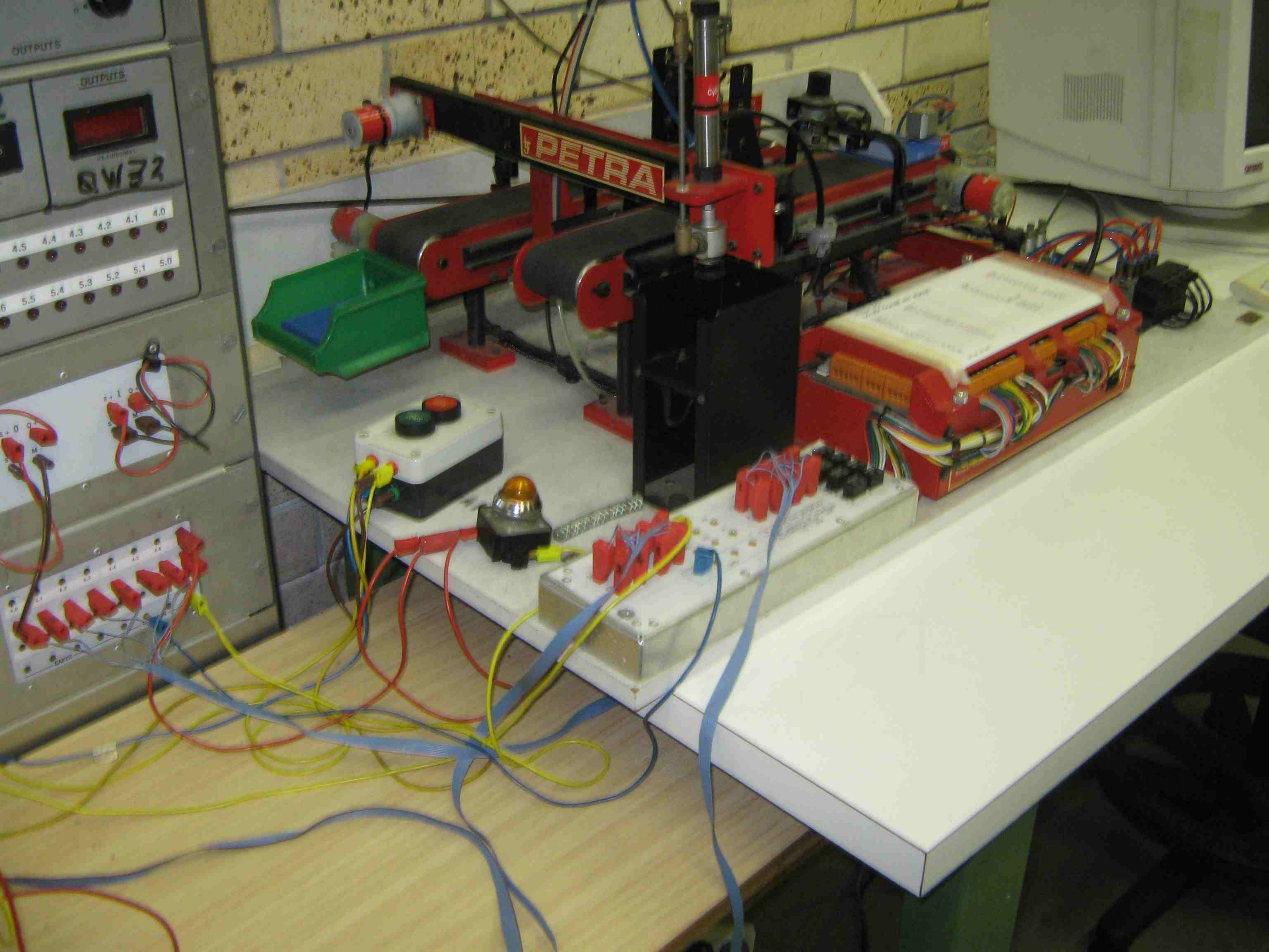
5-1 0

78 ASB1

270A

18V 9V





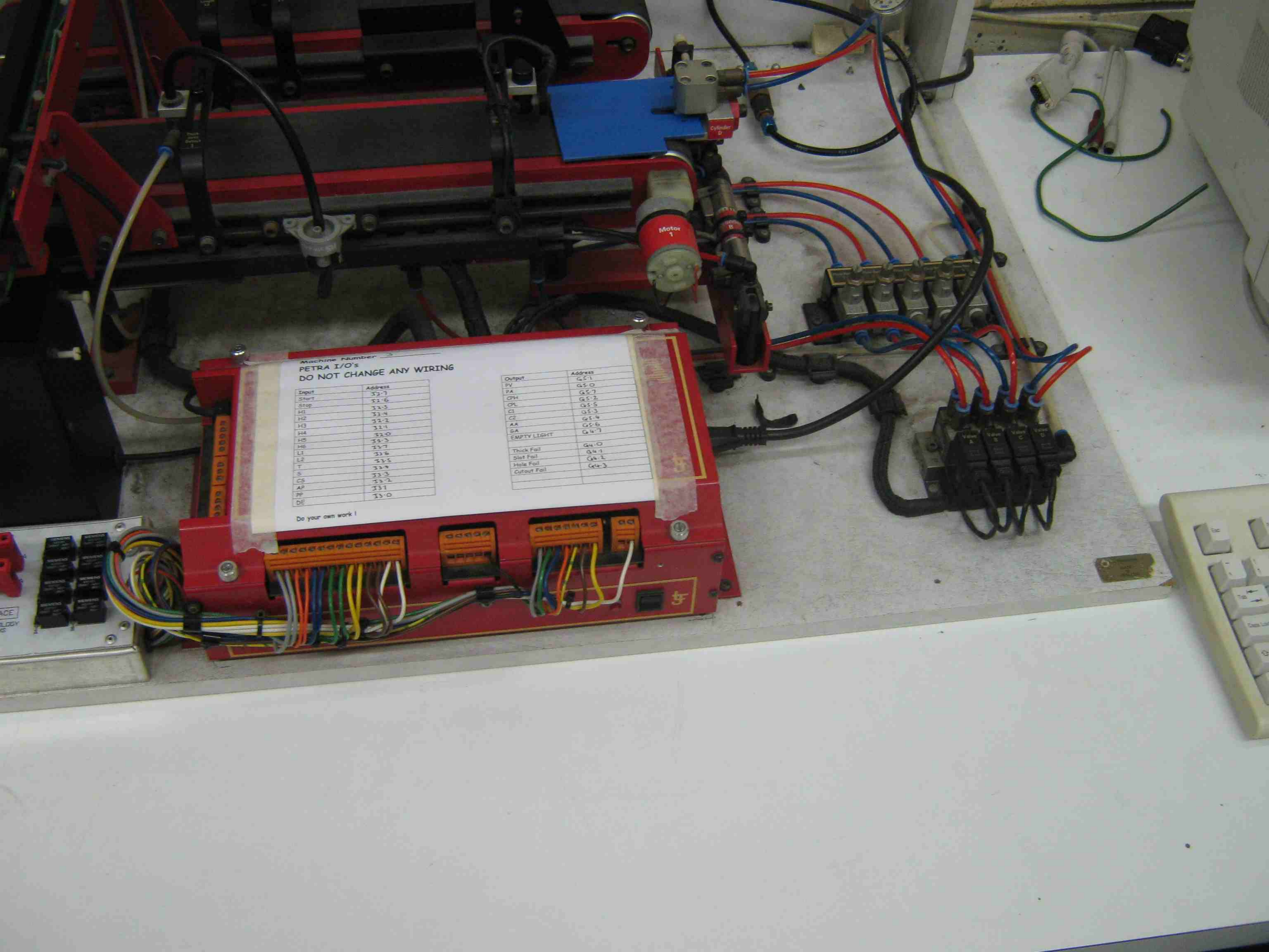


Machine Number 3  
 PETRA I/O's  
 DO NOT CHANGE ANY WIRING

Input	Address
Start	I2.7
Stop	I2.6
H1	I2.5
H2	I2.4
H3	I2.2
H4	I2.1
H5	I2.0
H6	I2.2
L1	I3.6
L2	I3.5
T	I3.4
S	I3.3
CS	I3.2
AP	I3.1
PP	I3.0
DE	I3.0

Output	Address
PV	Q5.1
PA	Q5.2
CPH	Q5.2
CPL	Q5.2
C1	Q5.3
C2	Q5.4
AA	Q5.6
GA	Q4.7
EMPTY LIGHT	
Thick Fail	Q4.0
Slot Fail	Q4.1
Hole Fail	Q4.2
Cutout Fail	Q4.3

Do your own work!





Machine Number 34  
**PETRA I/O's**  
**DO NOT CHANGE ANY WIRING**

Input	Address
Start	I2-0
Stop	I3-1
H1	
H2	
H3	
H4	
H5	
H6	I2-7
L1	I3-3
L2	I3-2
T	I2-2
S	I2-4
CS	I2-3
AF	I2-5
PP	I2-6
DE	I2-7 (EMPTY)

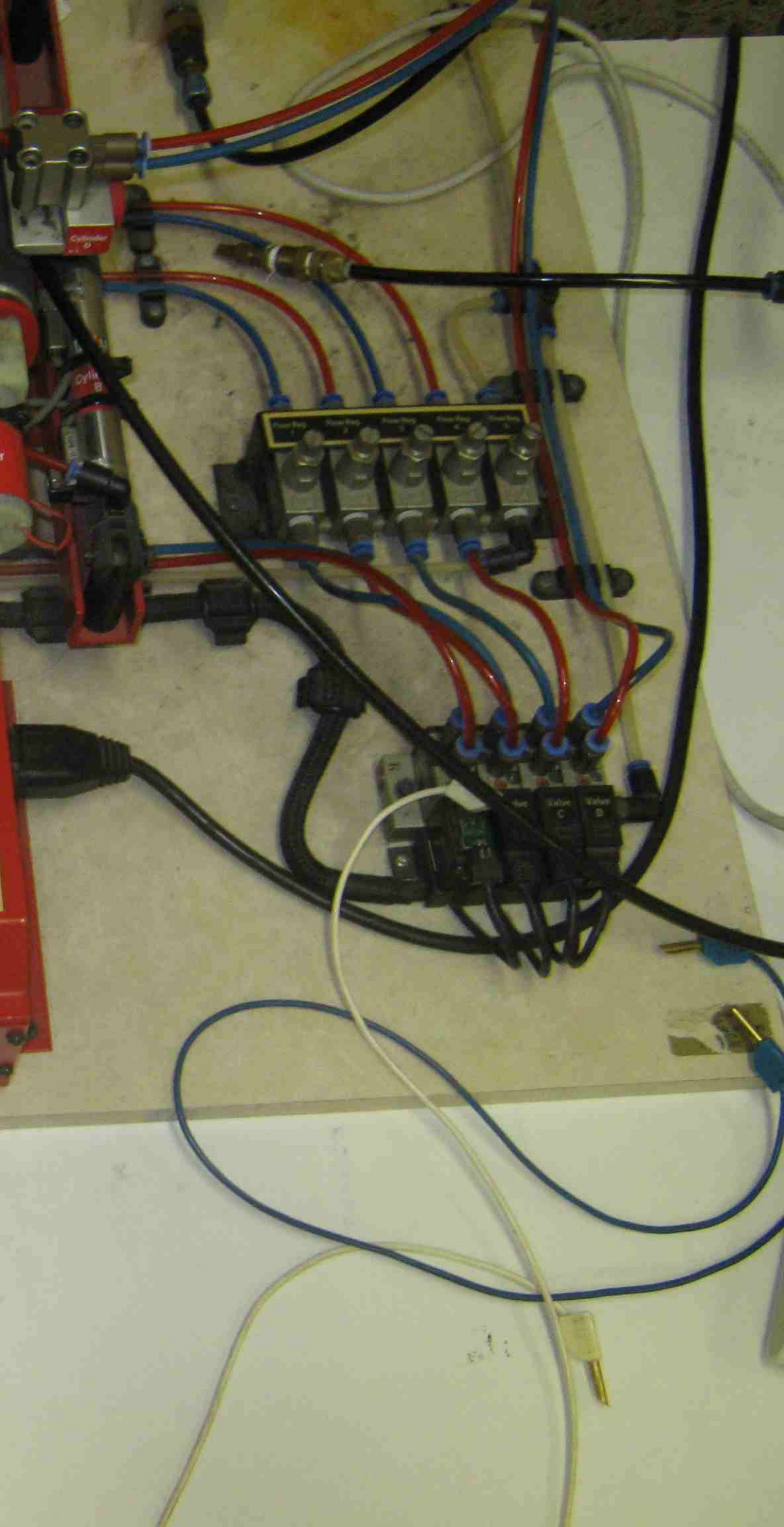
Output	Address
PV	Q4-6
PA	Q4-0
CPH	Q4-8
CPL	Q4-3
C1	Q4-7
C2	Q4-2
AA	Q4-1
GA	Q4-5
EMPTY LIGHT	Q5-0
Thick Fail	Q5-1
Slot Fail	Q5-2
Hole Fail	Q5-3
Cutout Fail	Q5-4

Do your own work!

TO ACTUATORS  
 GA  
 C2  
 C1  
 CPL  
**PETRA INTERFACE**  
 INSTITUTE OF TECHNOLOGY  
 TECHNOLOGY - CMM  
 1996

Motor 1

J





3.7 3.6 3.5 3.4 3.3 3.2 3.1 3.0

5.7 5.6 5.5 5.4 5.3 5.2 5.1 5.0

0+ 1+ 2+ 3+  
0- 1- 2- 3-

S+ O+  
S- O-

2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7  
3.7

4.0 4.1 4.2 4.3 4.4 4.5 4.6 4.7  
5.0 5.1 5.2 5.3 5.4 5.5 5.6  
EARTH COMMON

DE A S FROM SENSORS  
L2  
H5 H6  
H3 H4  
GND  
PLD - P  
SYDNEY ELECT  
PA BV  
TO 4

START

STOP





SINECLIT NETWORK  
A B

SIEMENS  
SINECLIT  
SINATIC 55 01 177  
BUS TERMINAL  
AES 777-0800P  
DIGITAL OUTPUTS  
MADE IN GERMANY

0A 0 0B 0  
1A 1 1B 1  
2A 2 2B 2  
3A 3 3B 3  
4A 4 4B 4

SIEMENS  
DIGITAL INPUT  
4x 24V  
AES 444-1AHC1  
DIGITAL INPUT

SIEMENS  
ANALOG INPUT  
4x 24V  
AES 444-1AHC1  
ANALOG INPUT

SIEMENS  
DIGITAL INPUT  
4x 24V  
AES 444-1AHC1  
DIGITAL INPUT

SIEMENS  
DIGITAL OUTPUT  
4x 24V  
AES 444-1AHC1  
DIGITAL OUTPUT

± 10 Volts

DC VOLTS

MONITOR

1 0 0

DC VOLTS

MONITOR

3 2 1 0

ANALOG MONITOR PANEL

MIN MAX MIN MAX MIN MAX

0 1 2 3

LOCAL EXTEND

OUTPUTS

HEXIDECIMAL  
0 0 5 0  
TW32

HEXIDECIMAL  
0 W32

4.7 4.6 4.5 4.4 4.3 4.2 4.1 4.0

5.7 5.6 5.5 5.4 5.3 5.2 5.1 5.0

DIGITAL MONITOR PANEL

INPUTS

2.7 2.6 2.5 2.4 2.3 2.2 2.1 2.0

3.7 3.6 3.5 3.4 3.3 3.2 3.1 3.0

5+ 0+ 5- 0-

5+ 1 0+ 5- 1 0-

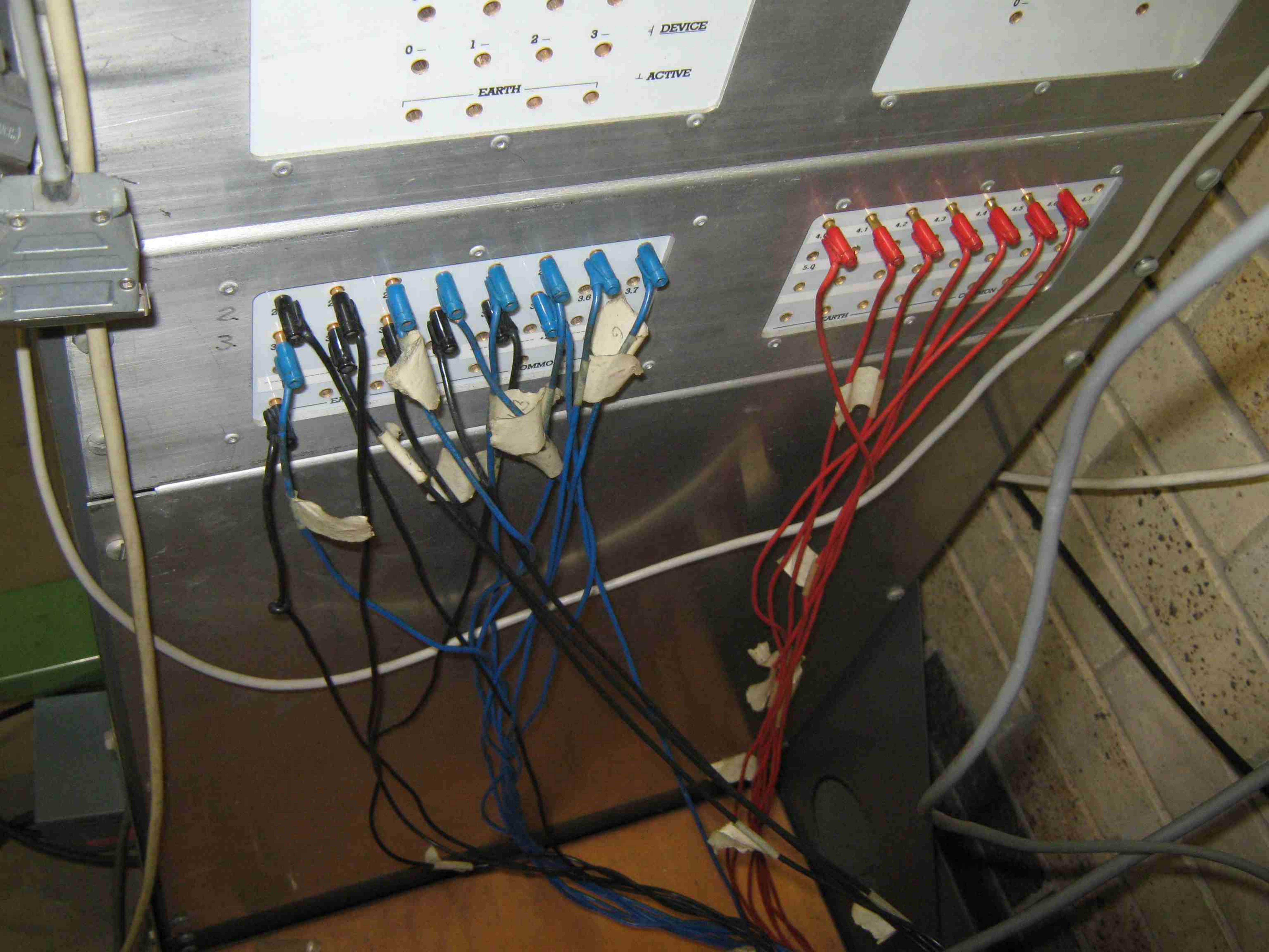
0+ 0- 1+ 1- 2+ 2- 3+ 3- 4+ 4- 5+ 5-



0 - 1 - 2 - 3 - + DEVICE  
EARTH ⊥ ACTIVE

2 3 4 5 6 7 8 9 10 11 12  
3.6 3.7  
OMMO  
EARTH

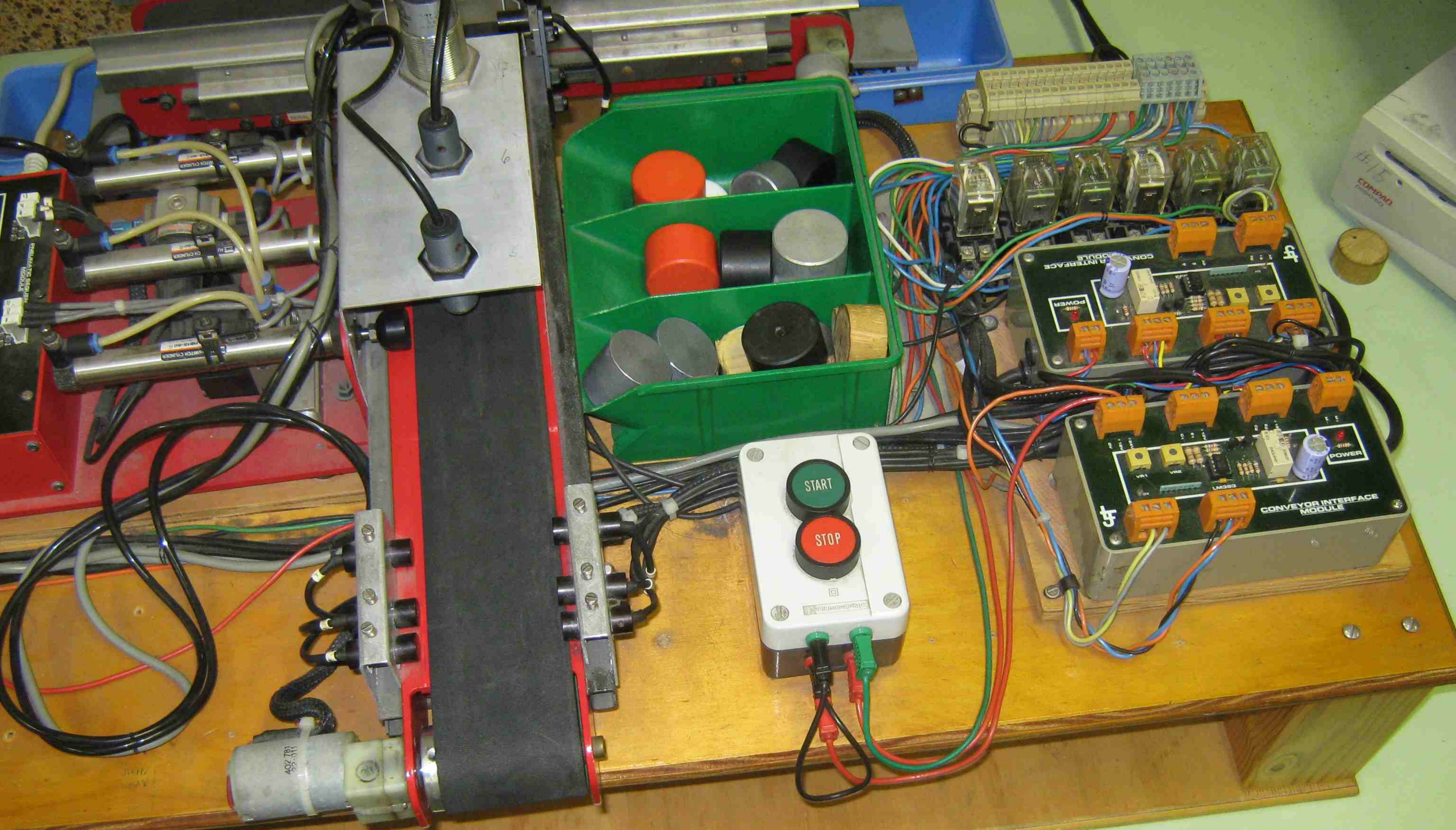
4.0 4.1 4.2 4.3 4.4 4.5 4.6 4.7  
5.0  
EARTH COMMON











JULIAN 1970





A red motor controller unit with a red emergency stop button on top. It has several orange terminal blocks on the front and is connected to various wires.

A grey motor with a black shaft and a red band. It is connected to the motor controller and has a grey terminal block on top.

A grey power supply unit with a white top section and a black bottom section. It has several orange terminal blocks on the top and is connected to the motor controller.

A grey terminal block with several orange terminal caps. It is connected to the power supply and the motor controller.

A red emergency stop button with a black base and a red lens. It is connected to the motor controller.

A piece of paper with some text and diagrams, possibly a wiring diagram or technical specifications, lying on the desk.









41/1005







\* \*  
HAS A RESERVE !!

RR FISHER

200

RR FISHER





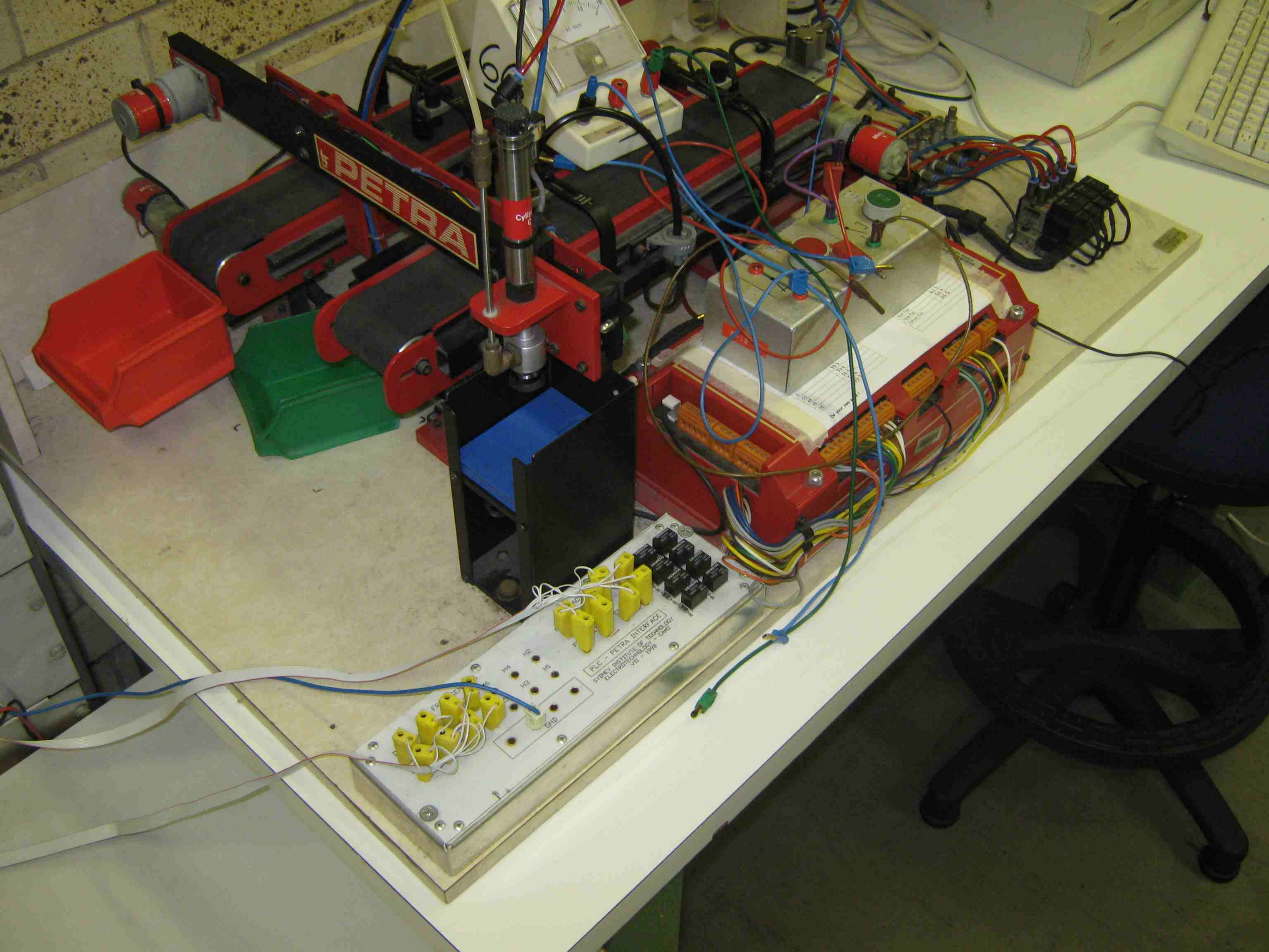












PETRA

Cylinder

PLC - PETRA INTERFACE  
SYDNEY INSTITUTE OF TECHNOLOGY  
ELECTROTECHNOLOGY  
VUL - 1990

H4

H2

H1

H3

GND



SIEMENS LI NETWORK

**SIEMENS**  
SIEMENS LI  
DIGITAL TERMINAL  
6ES5 711-0BC01  
6ES5 711-0BC01

0A 0 18 28 38 48

1A 2A 3A 4A

SIEMENS  
DIGITAL  
6ES5 711-0BC01

0A 0 1A 2A 3A 4A

**SIEMENS**  
SIMATIC 56-50U

SYSTEM ON LOW

0V 5V 12V 24V 48V 120V 230V

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

0V 5V 12V 24V 48V 120V 230V

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

**IB0**  
ANALOG INPUT  
4x 12bit

3+ Ch0.0  
4+ Ch1.0  
5+ Ch2.0  
6+ Ch3.0  
7+ Ch4.0  
8+ Ch5.0  
9+ Ch6.0  
10+ Ch7.0

**ANALOG OUTPUT**  
4x 50V

FINE0  
04 K.W.  
15-8-08

FUSE

**IB2**  
DIGITAL INPUT  
8x 12bit

**IB4**  
DIGITAL INPUT  
8x 12bit

**IB4**  
DIGITAL INPUT  
8x 12bit

**ANALOG MONITOR PANEL**

MONITOR

DC VOLTS

0 1 2 3 4 5 6 7 8 9 10

**ANALOG MONITOR PANEL**

MONITOR

DC VOLTS

0 1 2 3 4 5 6 7 8 9 10

**DIGITAL MONITOR PANEL**

INPUTS

0 1 2 3

LOCAL EXTEND

**DIGITAL MONITOR PANEL**

INPUTS

0 1 2 3

LOCAL EXTEND

25V32

25V32

0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0

± 10 Volts

OUTPUTS

INPUTS

INPUTS

DIGITAL MONITOR PANEL



5.7 5.6 5.5 5.4 5.3 5.2 5.1 5.0  
6.7 6.6 6.5 6.4 6.3 6.2 6.1 6.0  
7.7 7.6 7.5 7.4 7.3 7.2 7.1 7.0

*meta read 7041 702*  
8.7 8.6 8.5 8.4 8.3 8.2 8.1 8.0  
9.7 9.6 9.5 9.4 9.3 9.2 9.1 9.0  
10.7 10.6 10.5 10.4 10.3 10.2 10.1 10.0  
11.7 11.6 11.5 11.4 11.3 11.2 11.1 11.0

2

Red and black cables connected to a terminal block.

Blue cables connected to a terminal block labeled 8.0 through 8.7.

Large bundle of red and blue cables connected to the terminal blocks.



DIGITAL PANEL

INPUTS

OUTPUTS

4.5 4.4 *1002* 4.3 4.2 4.1 4.0

5.7 5.6 5.5 5.4 5.3 5.2 5.1 5.0

6.7 6.6 6.5 6.4 6.3 6.2 6.1 6.0

7.7 7.6 7.5 7.4 7.3 7.2 7.1 7.0

*2*

*← 3*

0 0 0 0

HEXIDECIMAL

*not used 1001 1000*

8.7 8.6 8.5 8.4 8.3 8.2 8.1 8.0

9.7 9.6 9.5 9.4 9.3 9.2 9.1 9.0

10.7 10.6 10.5 10.4 10.3 10.2 10.1 10.0

11.7 11.6 11.5 11.4 11.3 11.2 11.1 11.0

8.0 8.1 8.2 8.3 8.4 8.5 8.6 8.7



SINEC L1 NETWORK

A B

SIEMENS

SINEC L1  
SIMATIC SS-B7 777  
BUS TERMINAL  
6ES5 777-0BC00  
MADE IN GERMANY

0A 0 0B 1B 2B 3B 4B  
1A 1A 2A 3A 4A

17  
55A

MENS  
SIMATIC S5

EXT BATT 3.4V  
BATT LOW  
RESET  
5V DC  
5.2V DC  
24V DC  
INT DC  
POWER

115U  
CPU  
941

CP  
530

8

4

9

5

10

6

11

7

DIGITAL  
OUTPUT  
32x24VDC 0.5A

DIGITAL  
INPUT  
32x7.4VDC

OUTPUTS

HEXIDECIMAL  
0 0 0 0

HEXIDECIMAL  
0 0 0 0

3

8.0 8.1 8.2 8.3 8.4 8.5 8.6 8.7  
9.0 9.1 9.2 9.3 9.4 9.5 9.6 9.7  
10.0 10.1 10.2 10.3 10.4 10.5 10.6 10.7

5.0 5.1 5.2 5.3 5.4 5.5 5.6 5.7  
6.0 6.1 6.2 6.3 6.4 6.5 6.6 6.7

VOLTAGE  
SELECTOR

115/220V AC  
L1  
N  
⊕

Nur einsetzen, wenn MA305 bzw. MA306 steckbar  
Remove only if MA305 or MA306 is plugged in



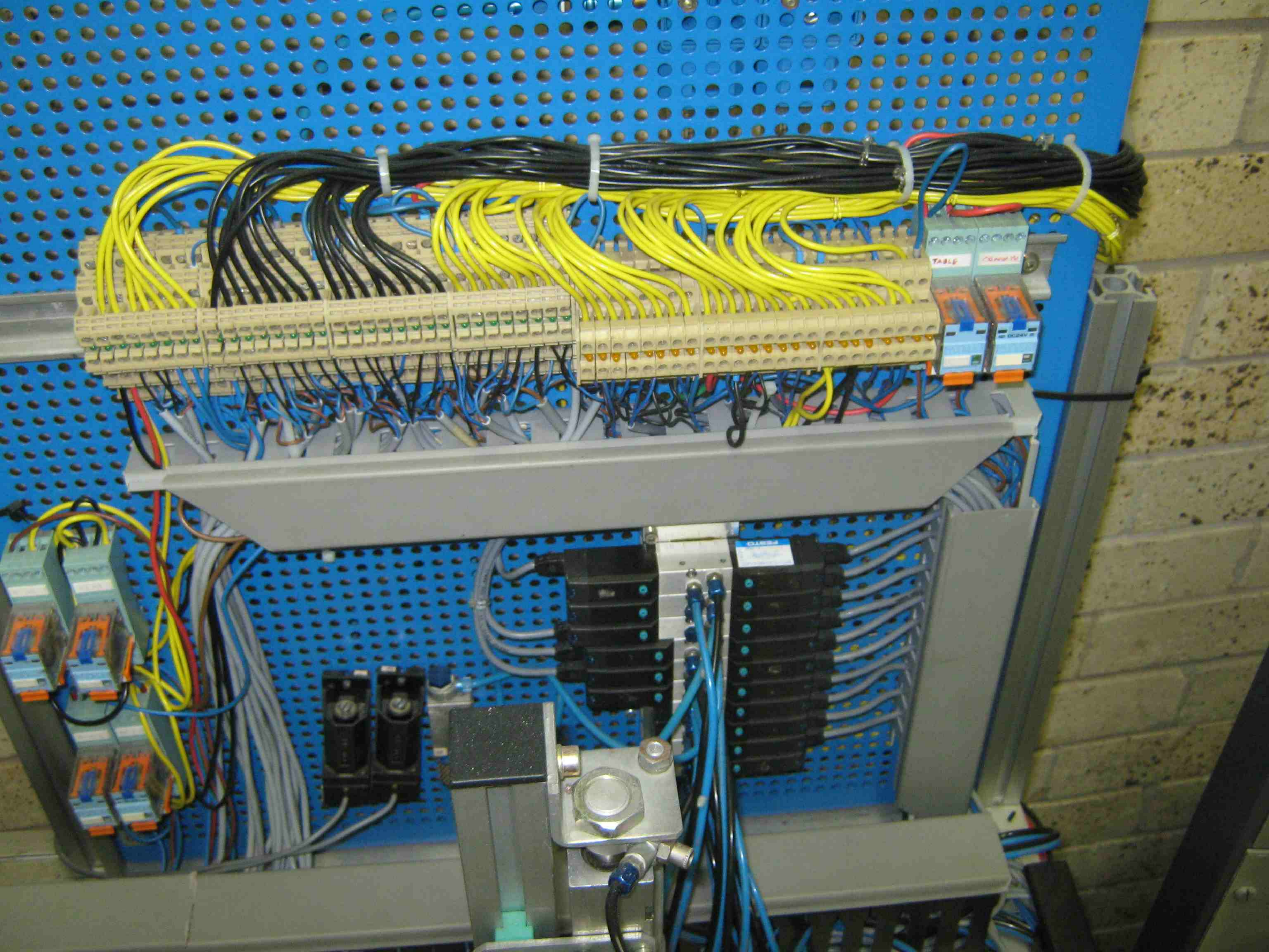
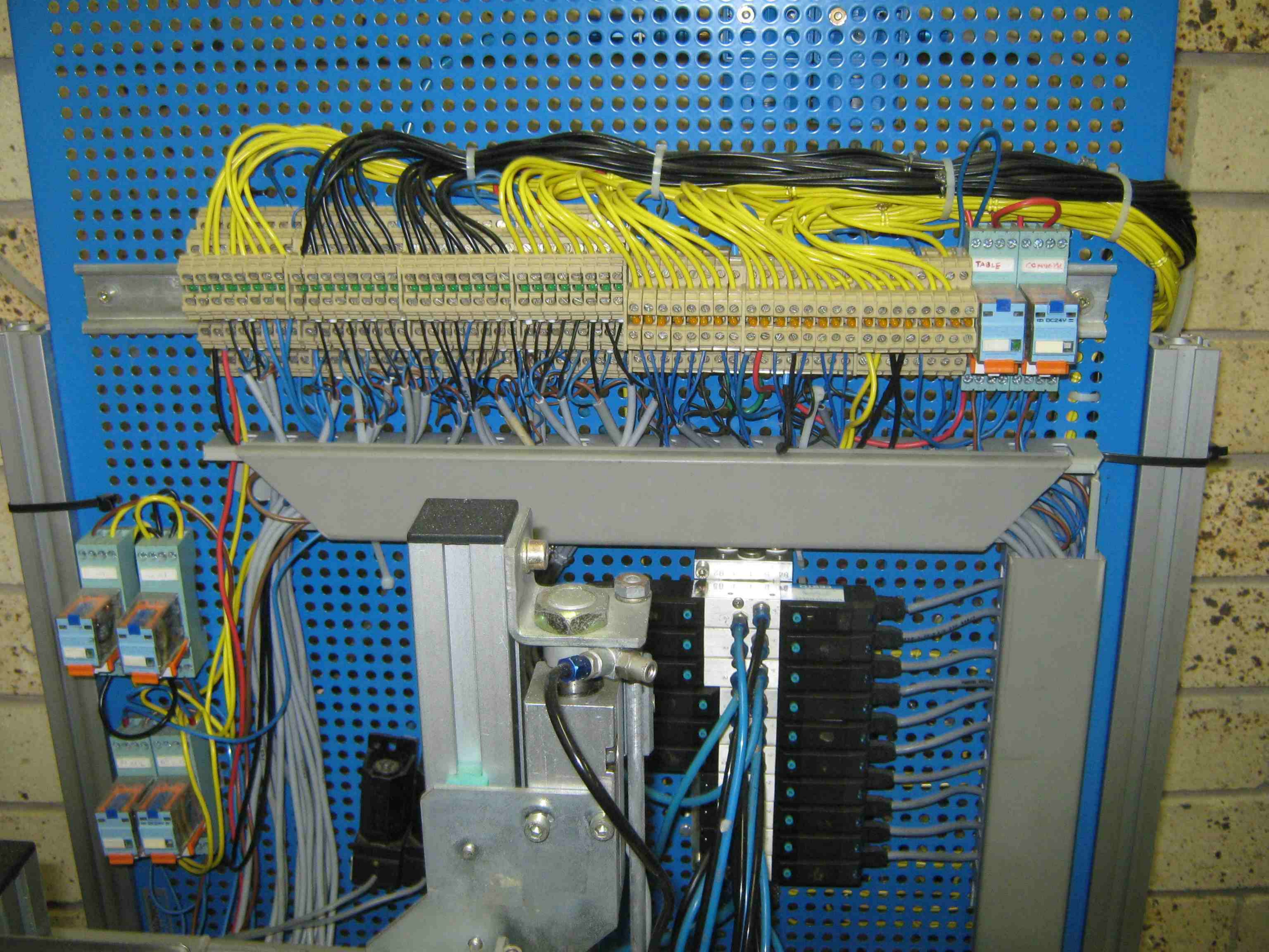


TABLE 10000000

TABLE 10000000

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A large, multi-section terminal block is mounted horizontally on the blue perforated metal plate. It consists of several rows of screw terminals. The top row has green terminals, and the bottom row has orange terminals. Numerous yellow and black cables are plugged into the terminals. To the right of the terminal block, there are two small blue terminal blocks labeled "TABLE" and "COMMON". Below these, there is a blue DC24V power supply unit.

Four smaller terminal blocks are mounted vertically on the left side of the panel. They are blue and orange, and have several wires connected to them. The wires are a mix of yellow, red, blue, and black.

A vertical stack of black relays or contactors is mounted on the panel. They are connected to a metal rail. Blue and black cables are plugged into the relays. A blue cable is connected to a terminal on the left side of the relays.

A vertical terminal block is mounted on the right side of the panel. It has several rows of terminals, and many grey and white cables are plugged into them.