

ELECT ENG CERT N°5

ANALOG OUT  
ANALOG IN

SERVO AMPLIFIER UNIT SA150D  
EC-CONT B3  
246

POWER SUPPLY UNIT PS 150E  
EC-CONT B3  
246

H-2-30

SIEMENS

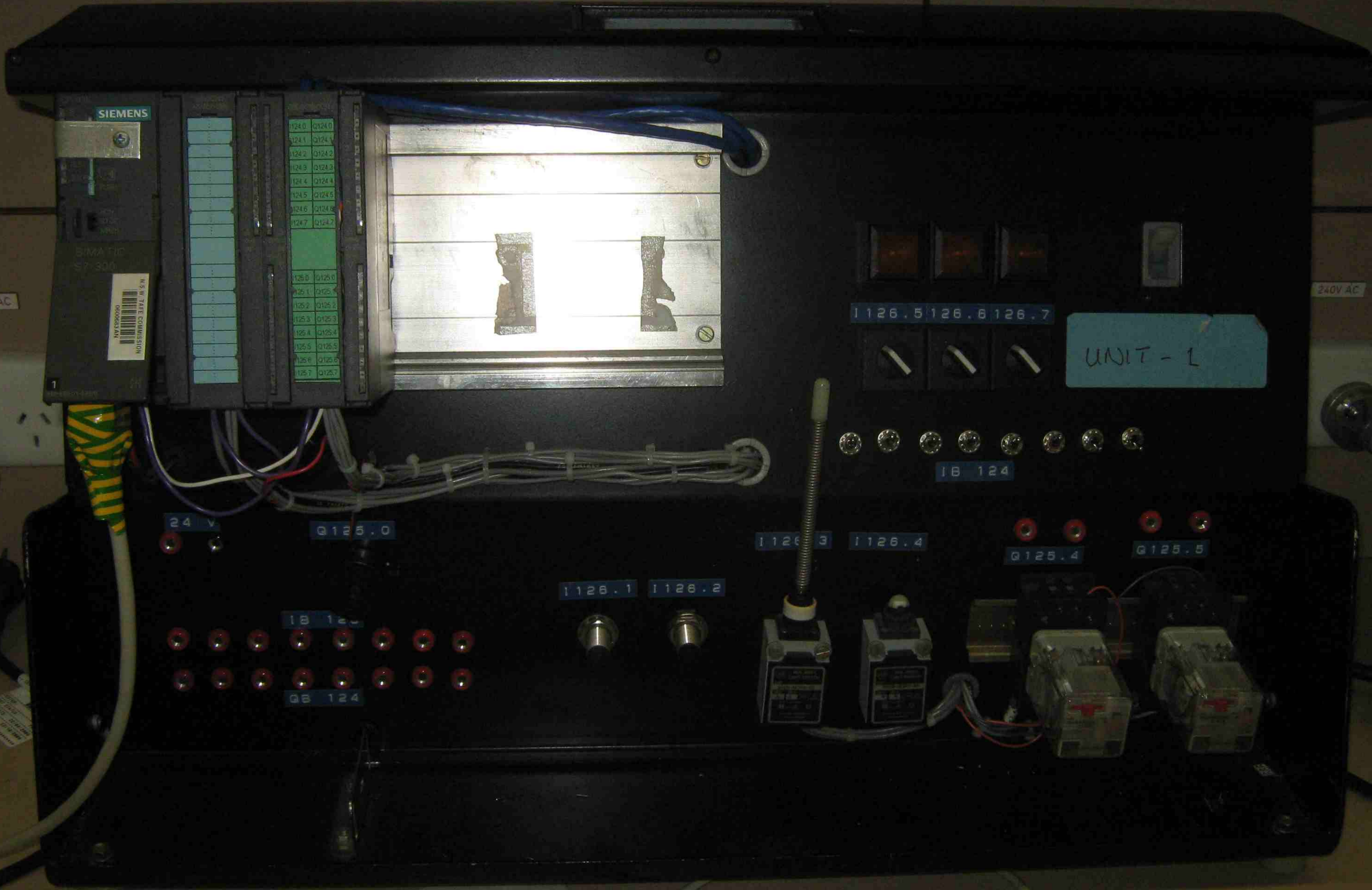
POWER

INPUTS

SIT - ULTIMO - INDUSTRIAL ELECTRONICS

REPAIR CENTER  
TEST DATE: 22/11/2008  
TEST STATUS: PASS  
DATE: 22/11/2008





SIEMENS

SIMATIC S7-300



Q124.0	Q124.0
Q124.1	Q124.1
Q124.2	Q124.2
Q124.3	Q124.3
Q124.4	Q124.4
Q124.5	Q124.5
Q124.6	Q124.6
Q124.7	Q124.7
Q125.0	Q125.0
Q125.1	Q125.1
Q125.2	Q125.2
Q125.3	Q125.3
Q125.4	Q125.4
Q125.5	Q125.5
Q125.6	Q125.6
Q125.7	Q125.7

240V AC

240V AC

UNIT - 1

I126.5 I126.6 I126.7

IB 124

24 V

Q125.0

I126.3

I126.4

Q125.4

Q125.5

I126.1

I126.2

IB 124

QB 124

**SIEMENS SIMATIC S5-100U PS 730**  
Voltage Selector  
24V DC  
RUN STOP  
RUN STOP COPY

**SIEMENS 482-8MA13**  
DIGITAL DC 24V  
0-7  
NC  
G

**SIEMENS 6ES5 788-8MA11**  
SIMULATOR INPUT/OUTPUT  
6ES5 788-8MA11  
1 3 4 5 6

**SIEMENS 6ES5 441-8MA11**  
DIGITAL OUTPUT  
8x24V DC/0.5A  
6ES5 441-8MA11  
1 2 3 4 5 6

**SIEMENS 6ES5 441-8MA11**  
DIGITAL OUTPUT  
8x24V DC/0.5A  
6ES5 441-8MA11  
1 2 3 4 5 6

**SIEMENS 6ES5 441-8MA11**  
DIGITAL OUTPUT  
8x24V DC/0.5A  
6ES5 441-8MA11  
1 2 3 4 5 6

**SIEMENS 6ES5 441-8MA11**  
DIGITAL OUTPUT  
8x24V DC/0.5A  
6ES5 441-8MA11  
1 2 3 4 5 6

**QW 64**  
**IW 64**  
6 3 0 1

**KAMODEN TR-202**  
DCV ACV  
DC1KV 0.5V 0.1V 50µA 2.5V 25V 500V  
ACV 250V 500V 1000V  
X1K X100 X10 X1  
L.P.Ω Ω ADJ  
DCmA  
COM

**DIGITAL INPUTS**  
2.7 2.6 2.5 2.4 2.3 2.2 2.1 2.0  
**DIGITAL OUTPUTS**  
3.7 3.6 3.5 3.4 3.3 3.2 3.1 3.0  
4.7 4.6 4.5 4.4 4.3 4.2 4.1  
5.7 5.6 5.5 5.4 5.3 5.2 5.1 5.0



SIEMENS  
SINUC 11  
DINATIC 55 BY 117  
BUS TERMINAL  
4ES 117-06C70

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

SIEMENS

1 A40  
FIXED DI  
K41  
H-T-06

ANALOG INPUT  
ANALOG OUTPUT  
DIGITAL INPUT  
DIGITAL OUTPUT

IB0 QB1 IB2 QB3 QB4 QB5

ANALOG MONITOR PANEL

4 - 20mA

MIN MAX MIN MAX MIN MAX MIN MAX

0 1 2 3

LOCAL EXTEND

MONITOR

0 1 2 3

LOCAL EXTEND

OUTPUTS

DIGITAL MONITOR PANEL

INPUTS

OUTPUTS

QW32

QW32

2.6 2.5 2.4 2.3 2.2 2.1 2.0

4.7 4.6 4.5 4.4 4.3 4.2 4.1 4.0

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

SIEMENS

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

SIEMENS NETWORK



SIEMENS  
SINUC 11  
DINATIC 55 BY 117  
BUS TERMINAL  
4ES 117-06C70

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

SIEMENS

1 A40  
FIXED DI  
K41  
H-T-06

ANALOG INPUT  
ANALOG OUTPUT  
DIGITAL INPUT  
DIGITAL OUTPUT

IB0 IB2 IB3 IB4 IB5

ANALOG MONITOR PANEL

4 - 20mA

MIN MAX MIN MAX MIN MAX MIN MAX

0 1 2 3

LOCAL EXTEND

MONITOR

0 1 2 3

LOCAL EXTEND

OUTPUTS

DIGITAL MONITOR PANEL

INPUTS

OUTPUTS

QW32

QW32

2.6 2.5 2.4 2.3 2.2 2.1 2.0

4.7 4.6 4.5 4.4 4.3 4.2 4.1 4.0

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

SIEMENS

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

Inputs	Outputs
Stop	1.0.0
Start	1.0.1
Reverse 1	1.0.2
Reverse 2	1.0.3
Emergency	1.0.4
Light	1.0.5
Light	1.0.6
Light	1.0.7
Light	1.0.8
Light	1.0.9
Light	1.0.10
Light	1.0.11
Light	1.0.12
Light	1.0.13
Light	1.0.14
Light	1.0.15
Light	1.0.16
Light	1.0.17
Light	1.0.18
Light	1.0.19
Light	1.0.20
Light	1.0.21
Light	1.0.22
Light	1.0.23
Light	1.0.24
Light	1.0.25
Light	1.0.26
Light	1.0.27
Light	1.0.28
Light	1.0.29
Light	1.0.30
Light	1.0.31
Light	1.0.32
Light	1.0.33
Light	1.0.34
Light	1.0.35
Light	1.0.36
Light	1.0.37
Light	1.0.38
Light	1.0.39
Light	1.0.40
Light	1.0.41
Light	1.0.42
Light	1.0.43
Light	1.0.44
Light	1.0.45
Light	1.0.46
Light	1.0.47
Light	1.0.48
Light	1.0.49
Light	1.0.50
Light	1.0.51
Light	1.0.52
Light	1.0.53
Light	1.0.54
Light	1.0.55
Light	1.0.56
Light	1.0.57
Light	1.0.58
Light	1.0.59
Light	1.0.60
Light	1.0.61
Light	1.0.62
Light	1.0.63
Light	1.0.64
Light	1.0.65
Light	1.0.66
Light	1.0.67
Light	1.0.68
Light	1.0.69
Light	1.0.70
Light	1.0.71
Light	1.0.72
Light	1.0.73
Light	1.0.74
Light	1.0.75
Light	1.0.76
Light	1.0.77
Light	1.0.78
Light	1.0.79
Light	1.0.80
Light	1.0.81
Light	1.0.82
Light	1.0.83
Light	1.0.84
Light	1.0.85
Light	1.0.86
Light	1.0.87
Light	1.0.88
Light	1.0.89
Light	1.0.90
Light	1.0.91
Light	1.0.92
Light	1.0.93
Light	1.0.94
Light	1.0.95
Light	1.0.96
Light	1.0.97
Light	1.0.98
Light	1.0.99
Light	1.0.100

21

Control panel with three buttons: **START** (green), **STOP** (blue), and **JOG** (green).

**CONVEYOR INTERFACE MODULE** with four orange terminal blocks and a power switch.

**CONVEYOR BELT TO P.C. INTERFACE** with various controls and indicators:

- Emergency stop button (red)
- Priority sensor (yellow)
- Left part available indicator (green)
- Right part available indicator (green)
- Forward button (yellow)
- Reverse button (yellow)
- System on indicator (red)
- PC outputs section with multiple indicator lights.

Motor and associated wiring, including a grey power cord and a black cable.







TOP  
74366

SINEC L1 NETWORK  
A B

SIEMENS SINEC L1  
DIGITAL INPUT  
48V DC 100mA  
48V DC 100mA

0	08	16	24	32	40
5A 0	1A	2A	3A	4A	5A

SIEMENS SINEC L1  
DIGITAL OUTPUT  
48V DC 100mA  
48V DC 100mA

0	08	16	24	32	40
5A 0	1A	2A	3A	4A	5A

SIEMENS SINEC L1  
DIGITAL INPUT  
48V DC 100mA  
48V DC 100mA

IBO ANALOG INPUT  
BY KVA 15-1-08

ANALOG OUTPUT  
BY KVA 15-1-08

IB3 QB3  
DIGITAL OUTPUT

IB4 QB4  
DIGITAL OUTPUT

4 - 20mA

MONITOR

LOCAL EXTEND

MONITOR

LOCAL EXTEND

ANALOG MONITOR PANEL

INPUTS

0 1 2 3

LOCAL EXTEND

OUTPUTS

QW32

00000

INPUTS

IW32

DIGITAL MONITOR PANEL

INPUTS

2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4
4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4
5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8

1. 2.

3. 4.

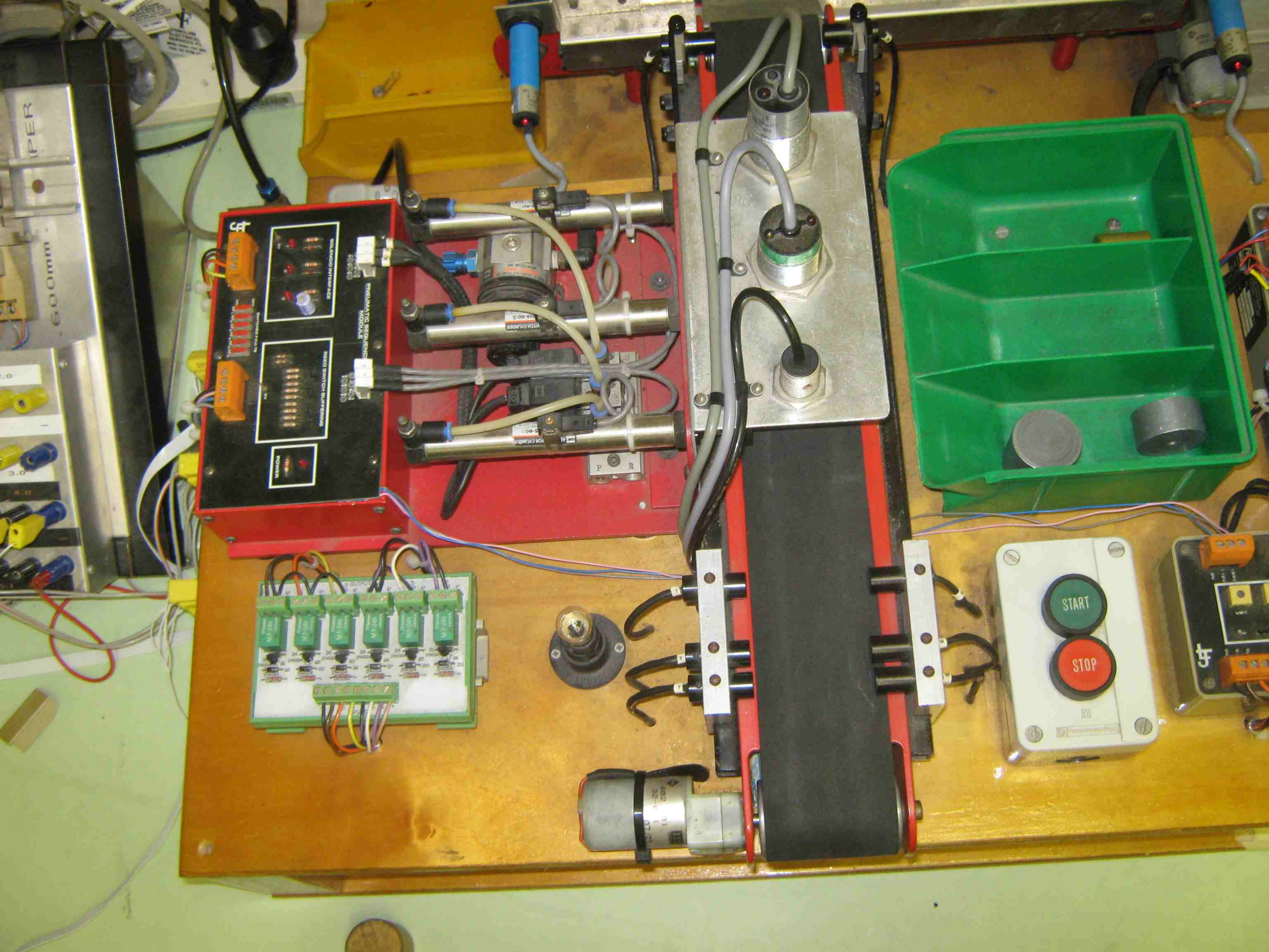
1. 2. 3. 4. 5. 6. 7. 8. 9. 10.

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.



**PLC Controller**

SOLENOID INTERFACE  
PNEUMATIC SEQUENCING MODULE  
SERVO SWITCH SUPPLEMENT

POWER

Terminal block with orange connectors and various colored wires.

**Terminal Block**

Green terminal block with multiple channels, each containing a green terminal cap. Wires are connected to the terminals.

**Control Box**

START  
STOP

White control box with two push buttons: a green 'START' button and a red 'STOP' button.

**Pneumatic Solenoid Valves**

Two solenoid valves with labels: "VTCO CYLINDER" and "VTCO CYLINDER". They are connected to a network of pneumatic tubing.

**Pressure Regulator**

Pressure regulator with two solenoid valves mounted on top, connected to the pneumatic system.

**Motor**

Small DC motor with a label: "402 31 32-4 1 073".

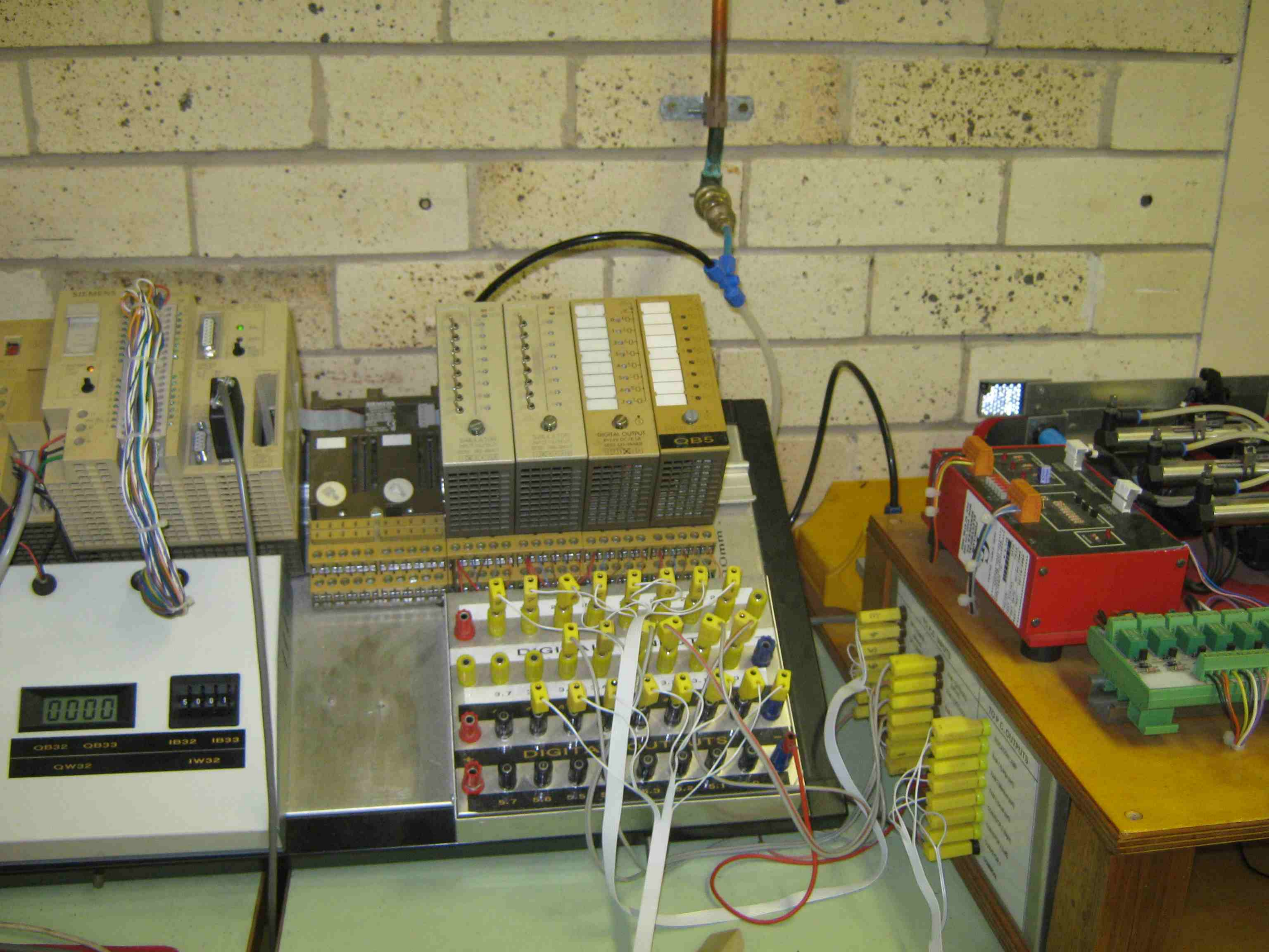
**Green Storage Bin**

Green plastic storage bin with two compartments, containing a metal disc and a metal cylinder.

**600mm Ruler**

600mm

Vertical ruler with markings and labels.



0000

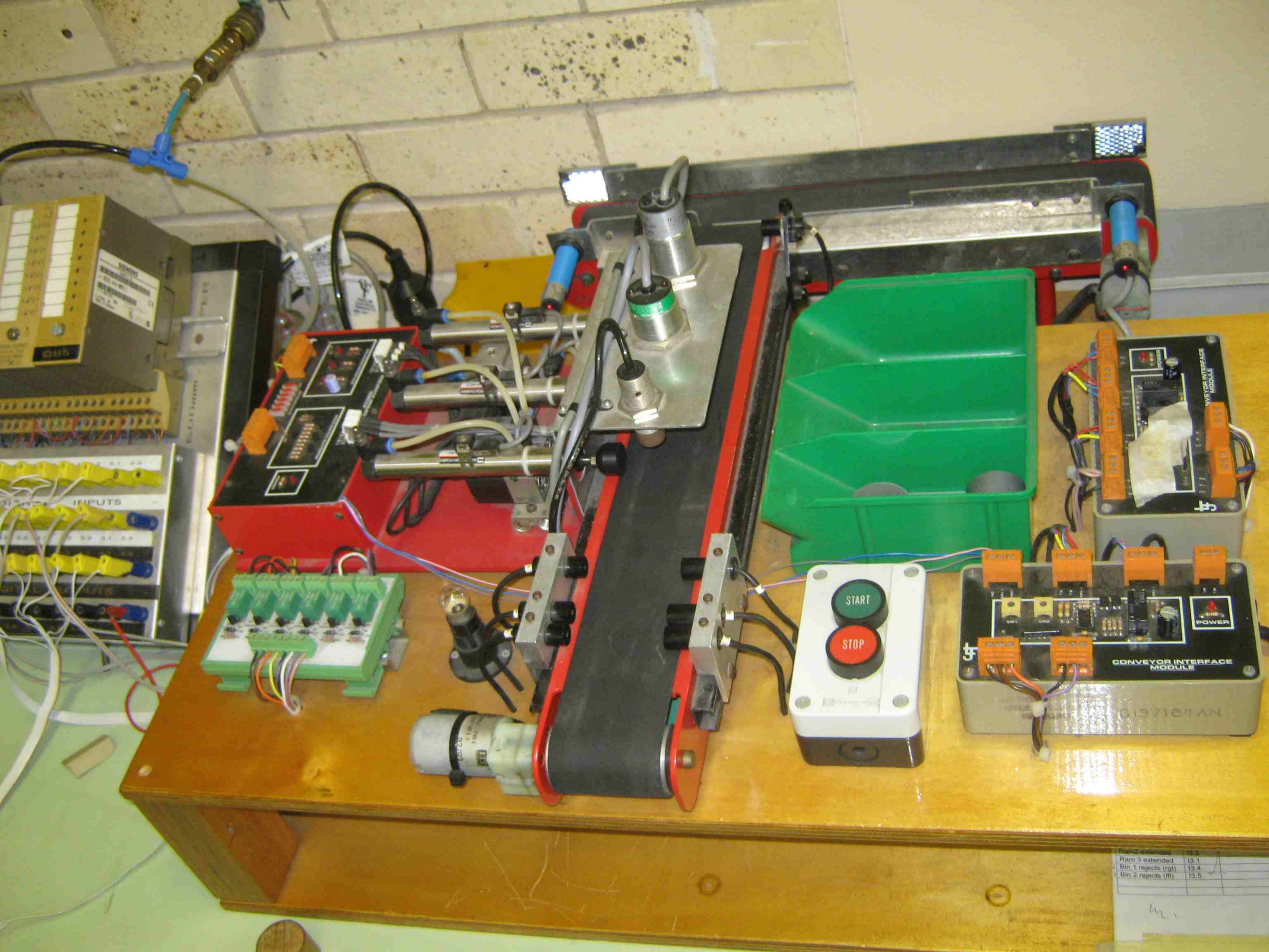
QB32 QB33 1B32 1B33  
QW32 1W32

QB5  
DIGITAL OUTPUT  
5VDC/0.5A  
100mA/0.5A

DIGITAL OUTPUTS  
5.7 5.6 5.5 5.4 5.3 5.2 5.1

TOP C. OUTPUTS





Yellow rack of modules with labels:

- 085
- Inputs
- 32 31 30
- 33 34 35

Red PLC unit with terminal blocks and wiring.

Green terminal block with multiple colored wires connected.

White control panel with two buttons:

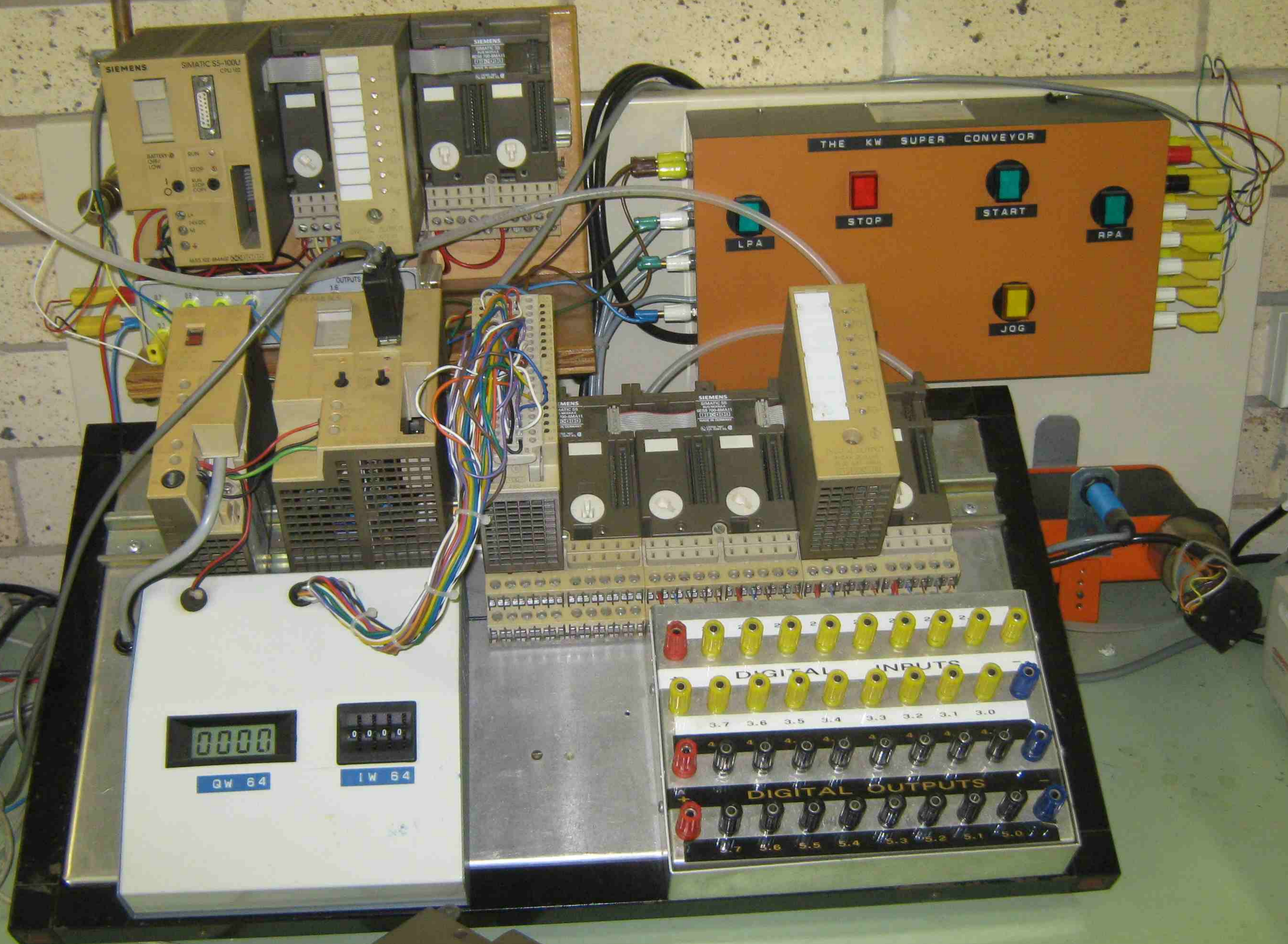
- START (green button)
- STOP (red button)

CONVEYOR INTERFACE MODULE (013718) with orange terminal blocks and a power switch.

CONVEYOR INTERFACE MODULE with orange terminal blocks.

Bin 2 rejects (lft)	13.5
Bin 1 rejects (rgt)	13.4
Bin 3 extended	13.1
Bin 2 extended	13.2

*my*



SIEMENS SIMATIC SS-100U CPU 100

BATTERY LOW RUN STOP

THE KW SUPER CONVEYOR

LPA

STOP

START

RPA

JOG

OUTPUTS 1.5

DIGITAL INPUTS

3.7 3.6 3.5 3.4 3.3 3.2 3.1 3.0

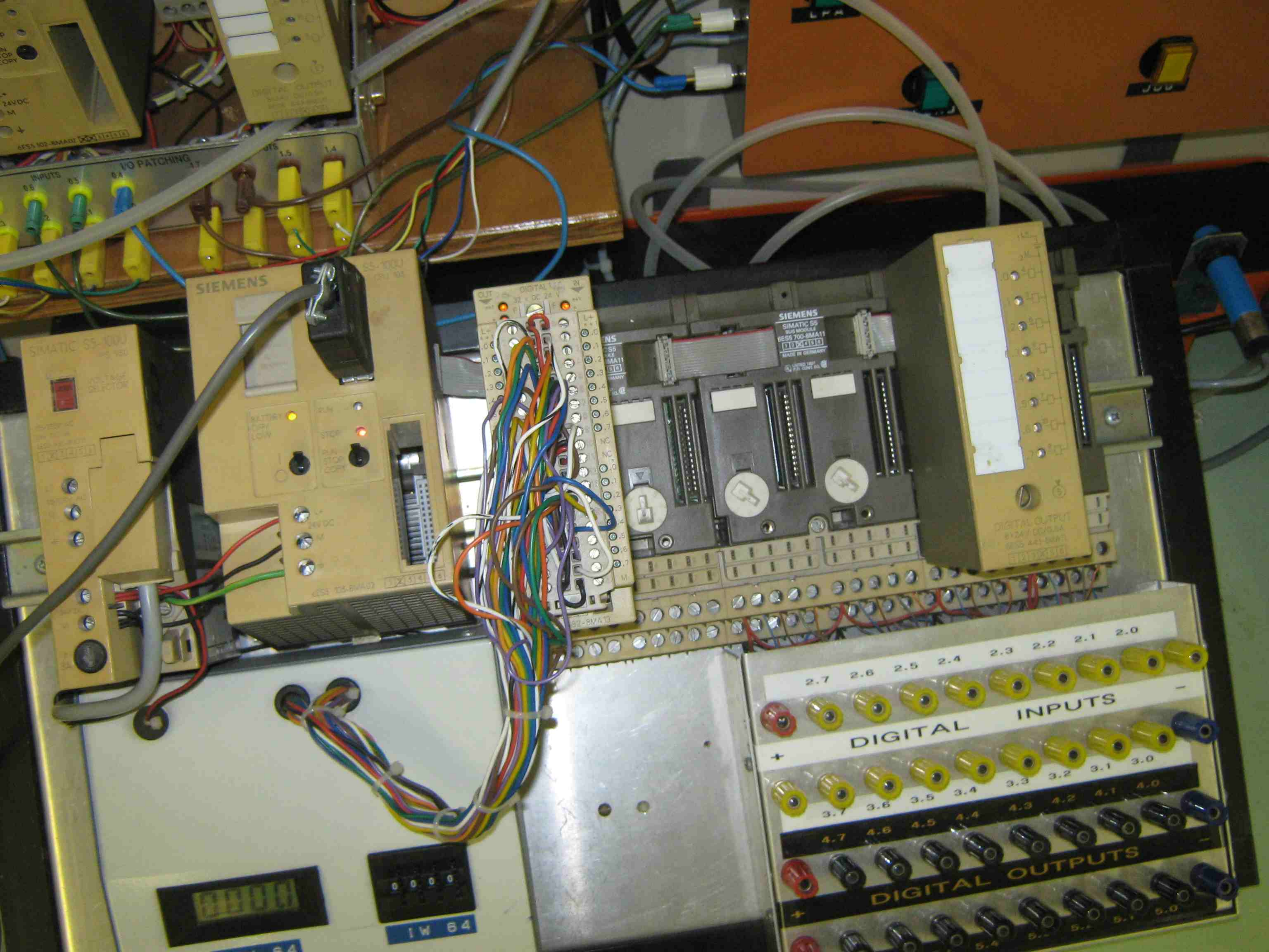
DIGITAL OUTPUTS

5.7 5.6 5.5 5.4 5.3 5.2 5.1 5.0

QW 64

IW 64





SIEMENS

SIMATIC 55-1000

AC TAPE DELTATOR

STOP

24VDC

6ES1 100-8MA07

1W 64

64

0000

1W 64

64

DIGITAL OUT

32 DC 24V

L+ 0.1

0.2

0.3

0.4

0.5

0.6

0.7

NC 0.8

NC 0.9

0.1

0.2

0.3

0.4

0.5

0.6

0.7

0.8

0.9

1.0

1.1

1.2

1.3

SIEMENS

SIMATIC 55

BUS MODULE

6ES1 700-8MA11

MADE IN GERMANY

LIMITED 1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

DIGITAL OUTPUT  
6ES1 441-50A11  
MADE IN GERMANY

2.7 2.6 2.5 2.4 2.3 2.2 2.1 2.0

DIGITAL INPUTS

3.7 3.6 3.5 3.4 3.3 3.2 3.1 3.0

DIGITAL OUTPUTS

4.7 4.6 4.5 4.4 4.3 4.2 4.1 4.0

SIEMENS

SIMATIC S5-100U  
CPU 102



BATTERY OFF/LOW

RUN

STOP

RUN STOP COPY

L+ 24VDC  
M

6ES5 102-8MA02

SIEMENS

SIMATIC S5

BUS MODULE

6ES5 700-8MA11

MADE IN GERMANY

SIEMENS

SIMATIC S5

BUS MODULE

6ES5 700-8MA11

MADE IN GERMANY

DIGITAL OUTPUT  
8x24V DC/0.5A  
6ES5 441-8MA11

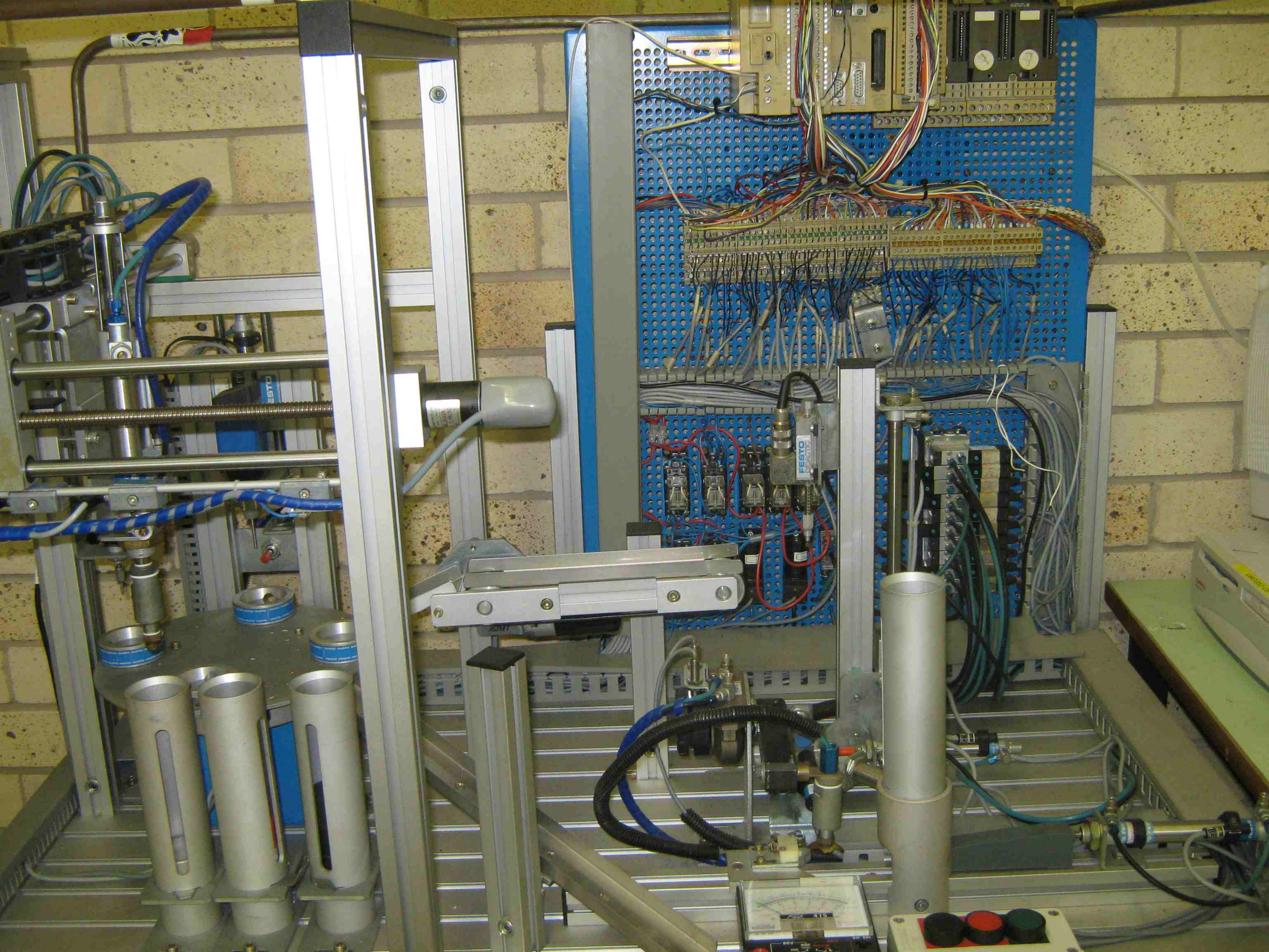
1	L+
2	M
3	0
4	1
5	2
6	3
7	4
8	5
9	6
10	7
11	8
12	9
13	10
14	11
15	12
16	13
17	14
18	15
19	16
20	17
21	18
22	19
23	20
24	21
25	22
26	23
27	24
28	25
29	26
30	27
31	28
32	29
33	30
34	31
35	32
36	33
37	34
38	35
39	36
40	37
41	38
42	39
43	40
44	41
45	42
46	43
47	44
48	45
49	46
50	47
51	48
52	49
53	50
54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

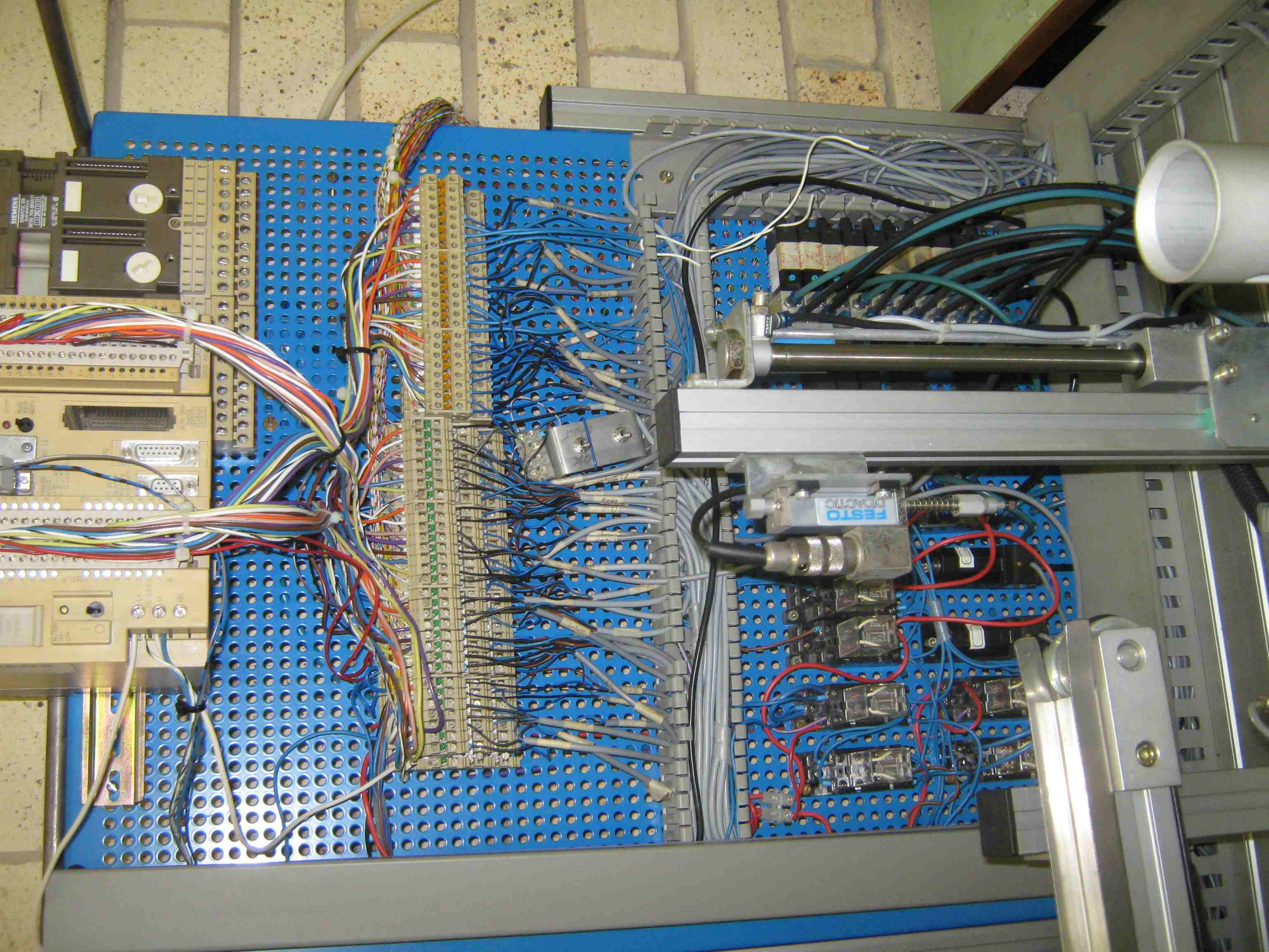
I/O PATCHING

0.7	0.6	0.5	0.4	1.7	1.5	1.4
0.3						

SIEMENS

SIMATIC S5-100U  
CPU 103





**SIEMENS**

SIMATIC S7-300

I126.0	Q124.0
I126.1	Q124.1
I126.2	Q124.2
I126.3	Q124.3
I126.4	Q124.4
I126.5	Q124.5
I126.6	Q124.6
I126.7	Q124.7
I125.0	Q125.0
I125.1	Q125.1
I125.2	Q125.2
I125.3	Q125.3
I125.4	Q125.4
I125.5	Q125.5
I125.6	Q125.6
I125.7	Q125.7

**Systeme Helmholz**

USB-Adapter für MPI-Bus

LED on LED flash

Power Update  
Active Param  
Connect Data

SSW7-USB  
700-755-1VK21

HW 4  
FW 3.02  
MPI-Bus

**KAMODEN**

TR-202

WITH L.P.D. and No. RANGE

DC1KV 2.5 0.5 0.1 50µA

ACV 250 50 10

Ω X1K X100 X10

DCmA 2.5 25

L.P.D. 250 50 10

COM

**INPUTS**

POWER

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 S-02 PLC TRAINING UNIT**

OUTPUT WORD

INPUT WORD

**OUTPUTS**

1 2 3 4 5 6 8

24V max.

1 2 3 4 5 6 7 8

24V max. 24V max. 24V max.

1R 3R

24V max. 24V max. 24V max.

2R 4R

INPUT 1 INPUT 2

POWER

LAMP TEST

MOTOR TEST

MOTOR

RESET

**CORBOT - ER III**

**ESHED ROBOTEC**

**CONTROL BOX**

NEW DEPT. OF 019609AN

PRESSURE GAUGE

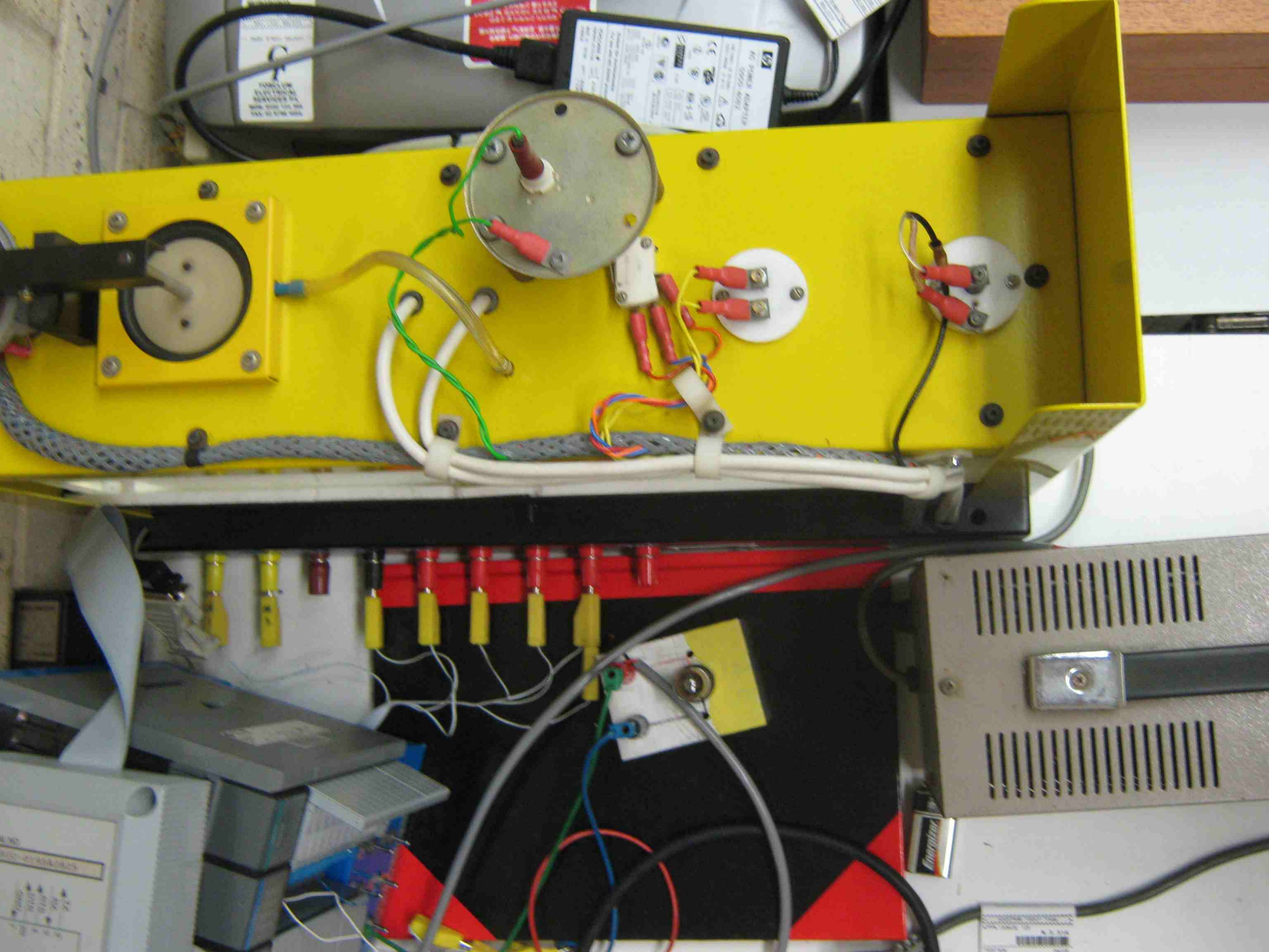
**ESHED ROBOTEC**

**FORCLUM ELECTRICAL SERVICES P/L**

MOB: 0422 174 399  
FAX: 02 9798 4056

Keyboard

Ctrl Alt



PLC TRAINING UNIT

ON OFF PULSE

ON OFF PULSE

X0 X1 X2 X3 X4 X5

X6 X7 X8 X9 X10 X11 X12 X13

INPUTS

PLC TRAINING UNIT

FORCLUM ELECTRICAL SERVICES P/L

MOB: 0402 124 399

FAX: 02 9798 4056

CENTRE CABLE HERE

TESTER: \_\_\_\_\_ DATE: \_\_\_\_\_

TEST STATUS: \_\_\_\_\_

TEST DATE: 22/04/2008

TEST TIME: 22:10:2008

APPLIANCE ID: W.S. 315

ATD DC POWER SUPPLY

H.1.1B

FORCLUM ELECTRICAL SERVICES P/L

MOB: 0402 124 399

FAX: 02 9798 4056

White Board Marker 9011

NON-TOXIC

BULLET POINT

ENERGIZER





# 1

H.E.W. TAFE COMMISSION  
0415827AN

AC

SIEMENS  
S7-300

126.0	Q124.0
126.1	Q124.1
126.2	Q124.2
126.3	Q124.3
126.4	Q124.4
126.5	Q124.5
126.6	Q124.6
126.7	Q124.7
125.0	Q125.0
125.1	Q125.1
125.2	Q125.2
125.3	Q125.3
125.4	Q125.4
125.5	Q125.5
125.6	Q125.6
125.7	Q125.7

Systime Helpdesk  
USB Adapter  
for Modem  
LED  
Active  
Connect Data  
CE  
S9WT-USB  
100-155-11021  
HW 4  
FW 3.05  
Modem

POWER

INPUT

OUTPUT WORD

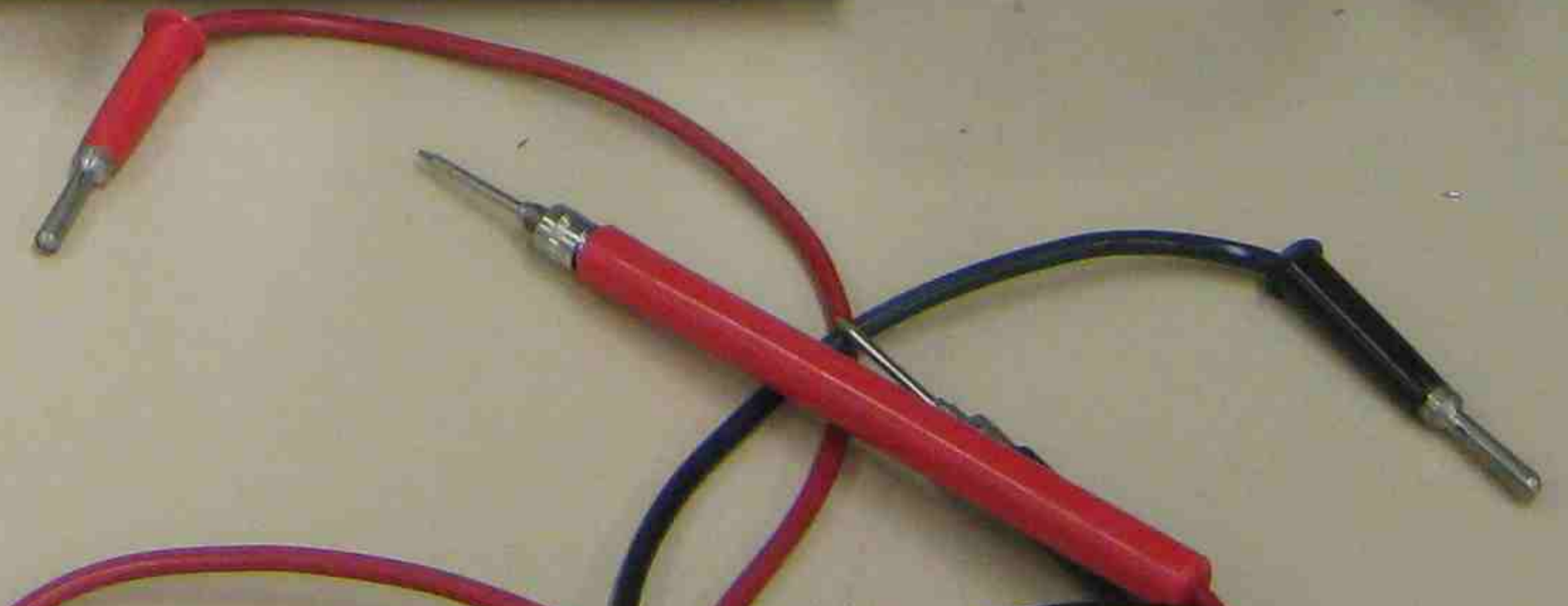
0.7 0.6 0.5 0.4 0.3 0.2 0.1 0.0

1.7 1.6 1.5 1.4 1.3 1.2 1.1 1.0

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

INPUT WORD

PROPERTY OF  
ELEC ENG  
J FENTON





INDUSTRIAL ELECTRONICS S-1021 TRAINING UNIT

INPUTS: 0.7, 0.6, 0.5, 0.4, 0.3, 0.2, 0.1, 0.0

OUTPUT WORD: 1.7, 1.6, 1.5, 1.4, 1.3, 1.2, 1.1, 1.0

MULTIMETER

VOLTS

AMPERES

DC MOTOR UNIT

TESTER: M. S. AKBAR

TEST STATUS: 22/04/2009

TEST DATE: 22/10/2009

TEST TIME: 11:30

TEST PLACE: LAB

SERVO AMPLIFIER UNIT SA150D

4-24V

MOTOR FIELD

MOTOR ARMATURE

TO MOTOR

FROM POWER SUPPLY

POWER SUPPLY UNIT P-150E

424 VOLTS DC LINE

24V 0.75W

AMPS D.C.

24V

15V

0V

-15V

24V

15V

0V

-15V

TESTER: M. S. AKBAR

TEST STATUS: 22/04/2009

TEST DATE: 22/10/2009

TEST TIME: 11:30

TEST PLACE: LAB



REGULATED POWER SUPPLY

TYPE JT202

FUSE 1A



COARSE

FINE

CURRENT

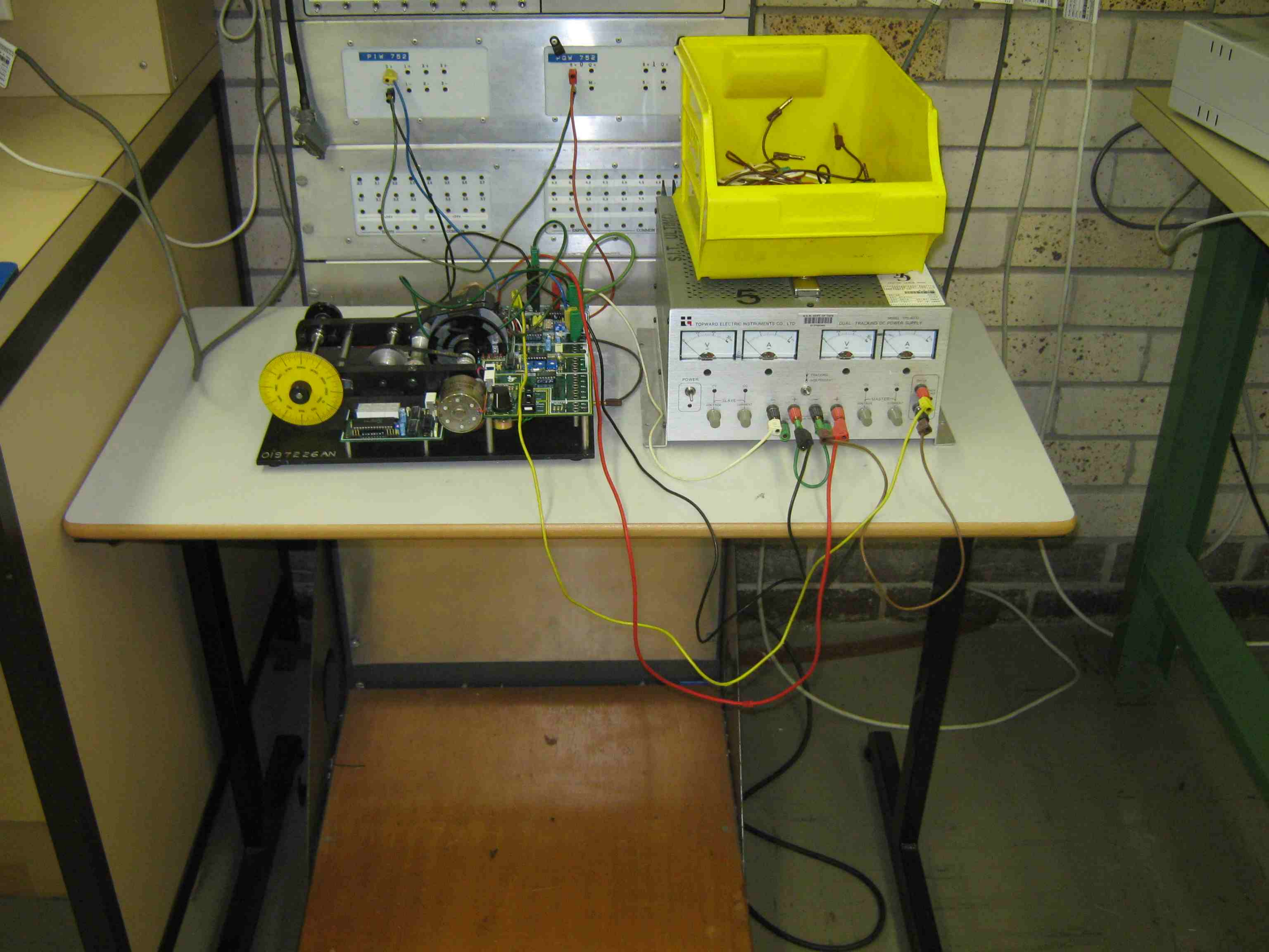
(A) PTY LTD

COAXIAL CABLE

4







0137226AN

Custom-built electronic circuit board with a yellow dial and various components.

TOPWARD ELECTRIC INSTRUMENTS CO. LTD. MODEL TPD-4220 DUAL TRACK DC POWER SUPPLY

5

Power supply unit with four meters (V, A, V, A) and output terminals.

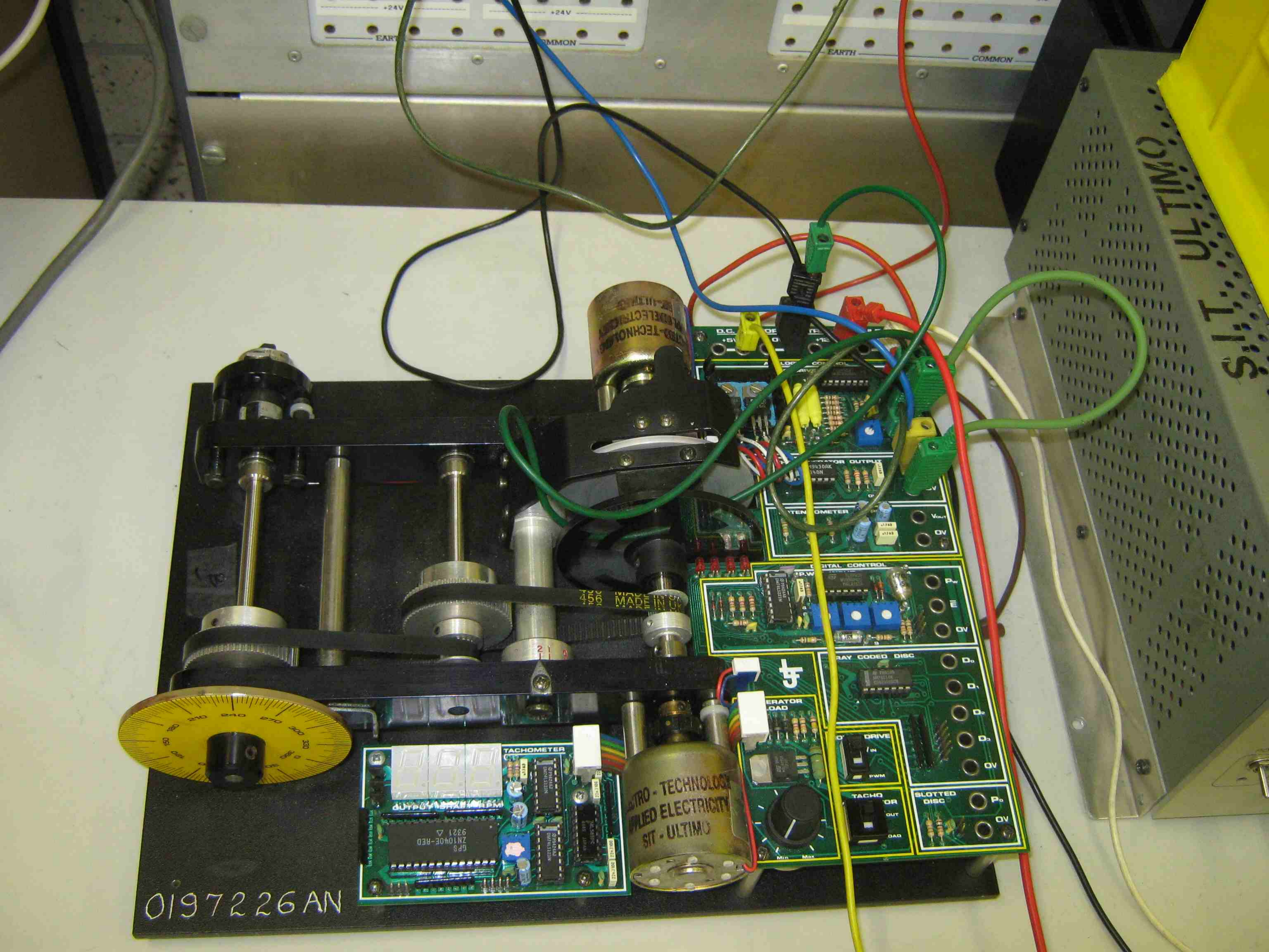
PIW 752

Power supply unit in a metal rack.

POW 752

Power supply unit in a metal rack.





+24V  
EARTH  
COMMON

+24V  
EARTH  
COMMON

SIT... ULTIMO...

...-TECHNOLOGY  
...ELECTRICITY

...-TECHNOLOGY  
...ELECTRICITY  
SIT - ULTIMO



0197226AN

TACHOMETER  
GPS 2N1040E-RED  
9321

D.C. MOTOR OUTPUT  
GENERATOR OUTPUT  
DIGITAL CONTROL  
GRAY CODED DISC  
GENERATOR LOAD  
DRIVE  
TACHO  
SLOTTED DISC

126.7 126.6 126.5 126.4 126.3 126.2 126.1 126.0

6.7 6.6 6.5 6.4 6.3 6.2 6.1

QB 124

PIW 752

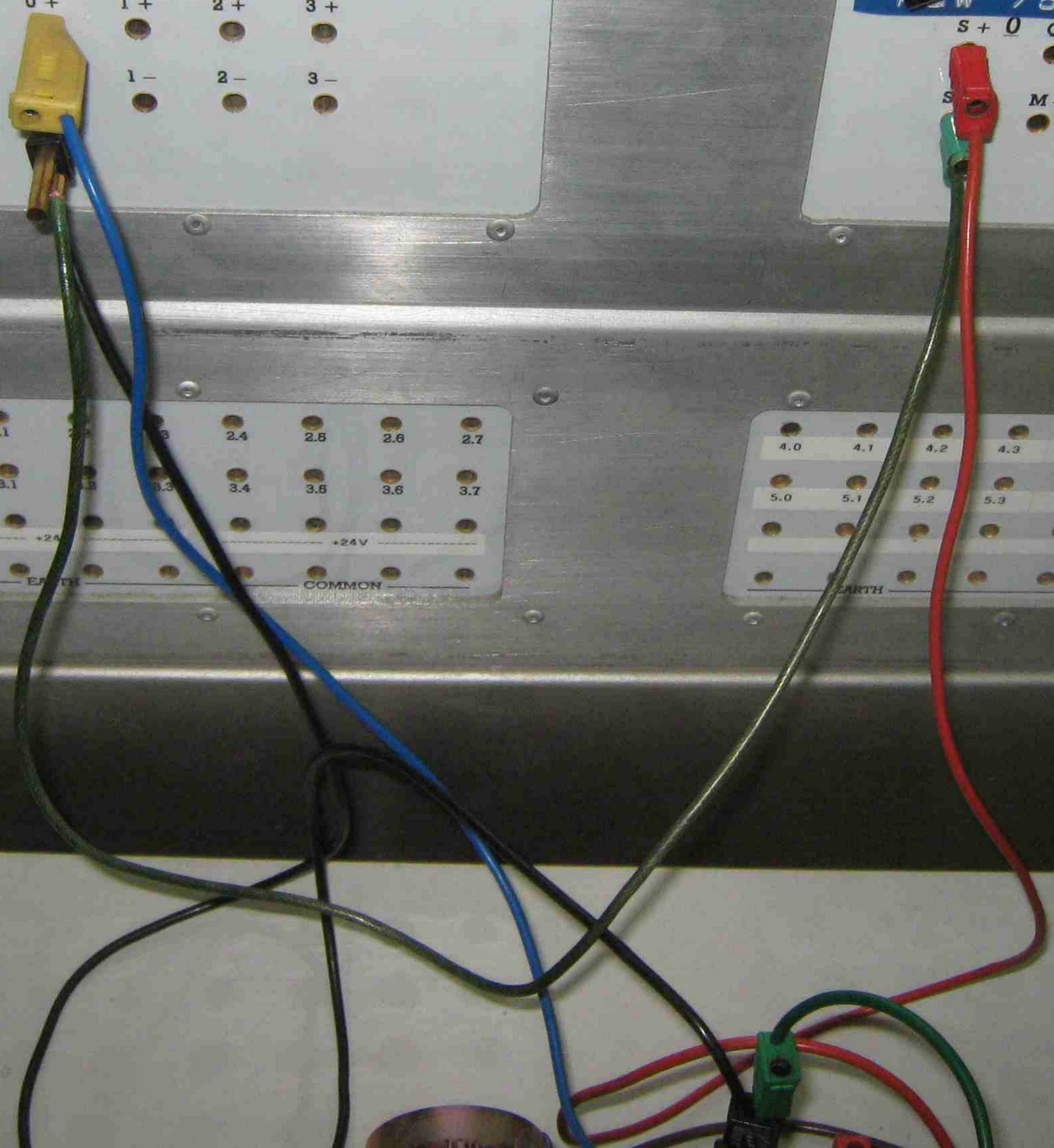
0+	1+	2+	3+
	1-	2-	3-

PIW 752

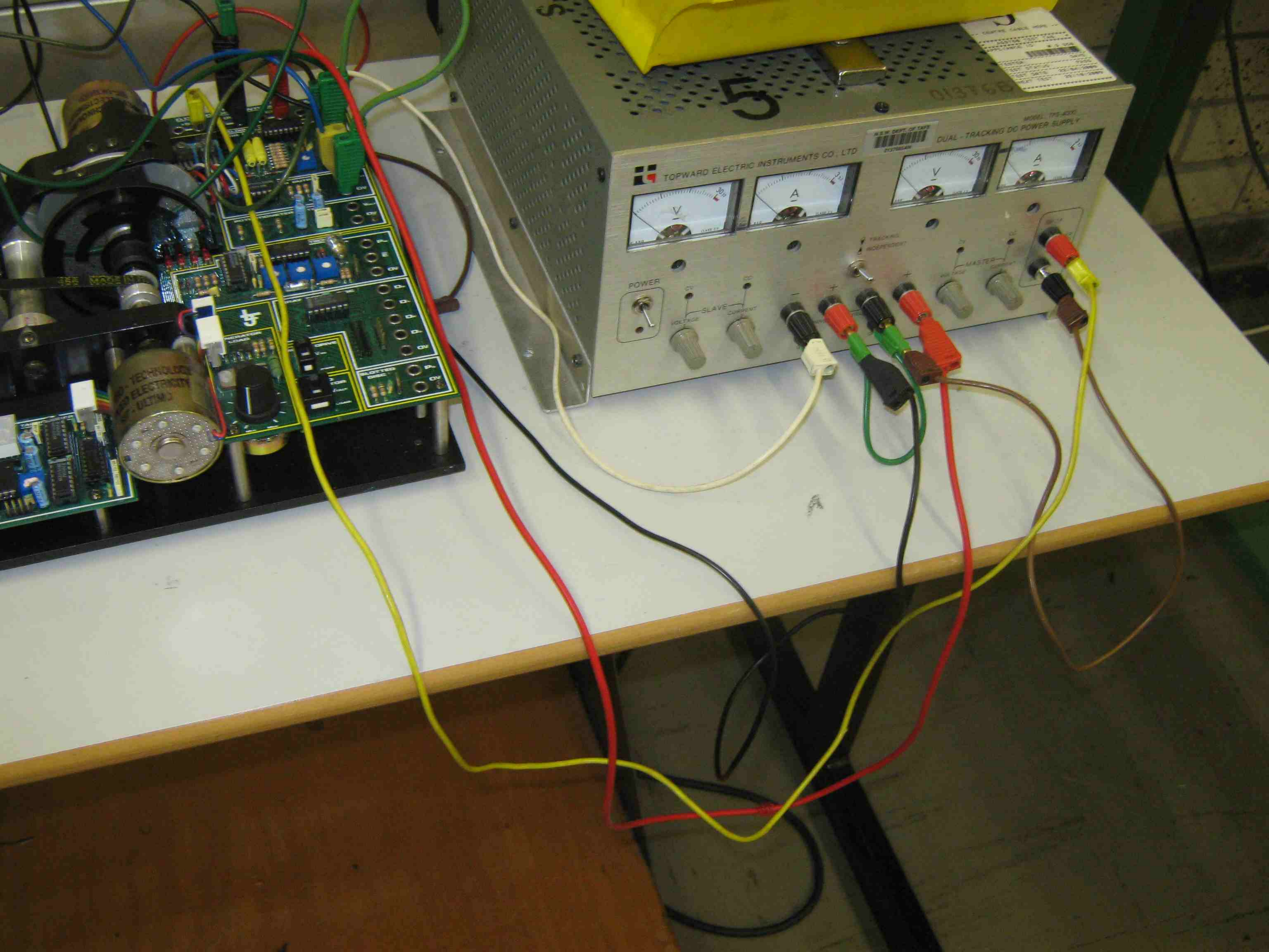
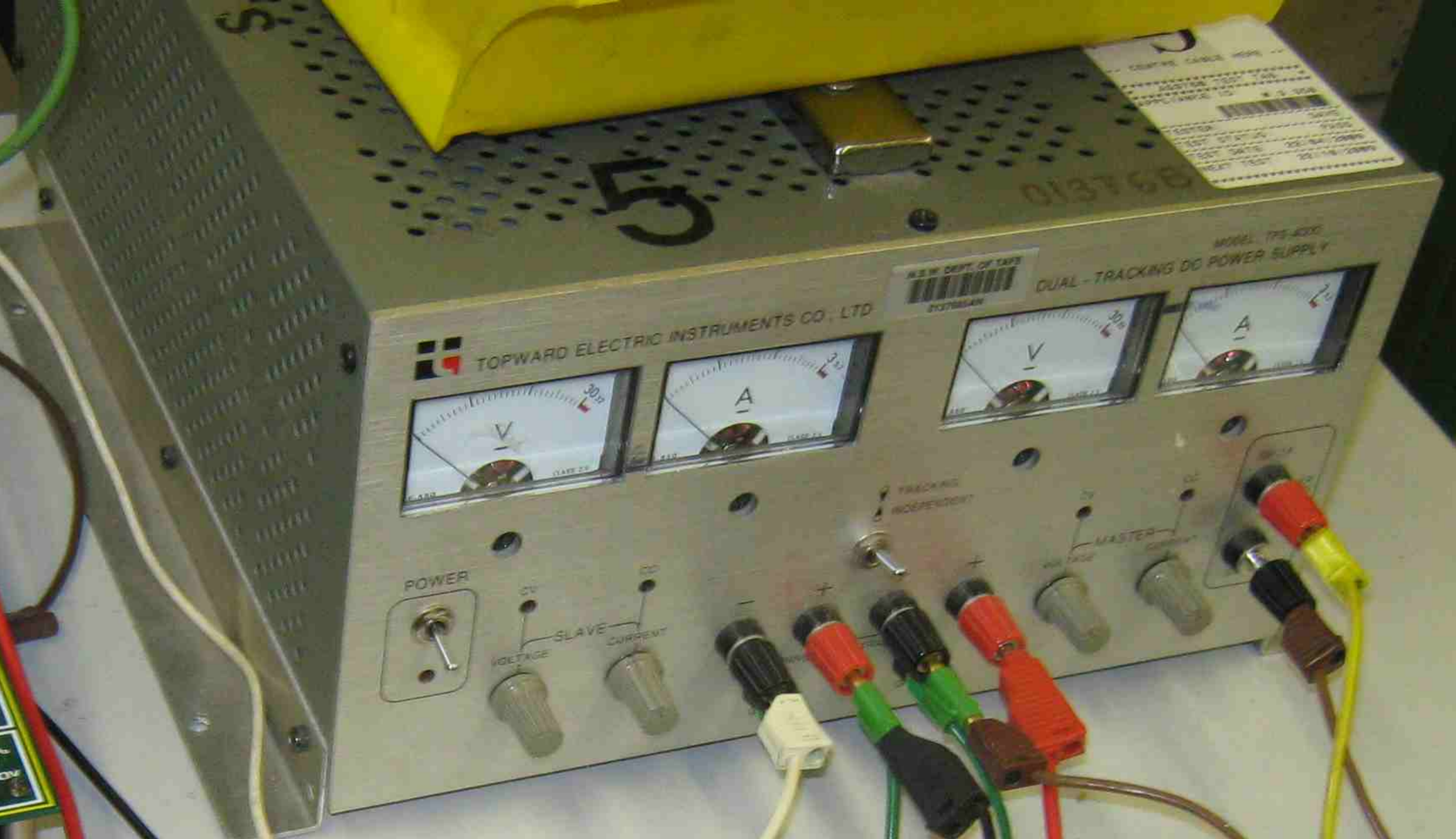
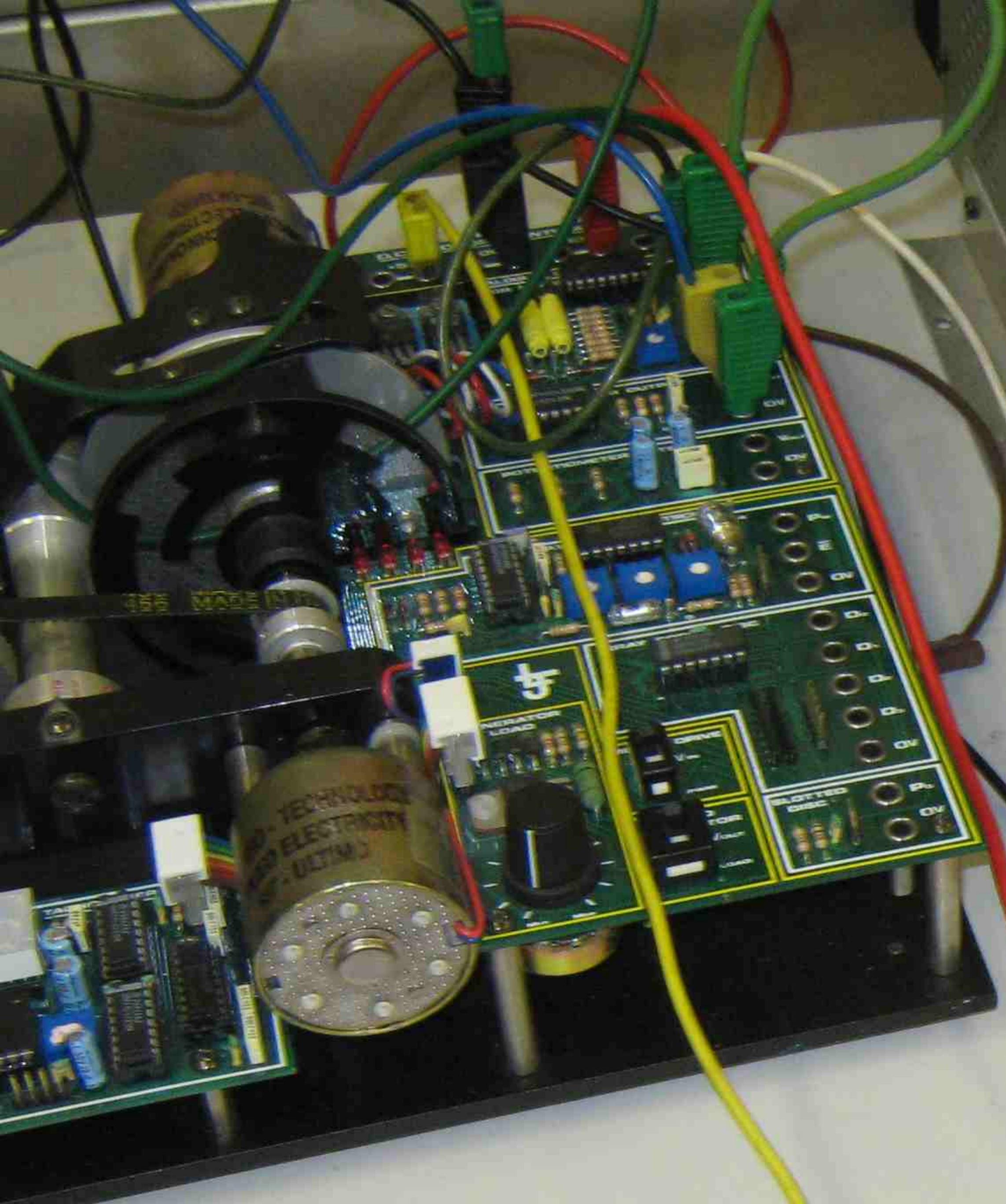
s+0	o+	s+1	o+
s-	M-	s-	M-

2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7
3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7
+24V				+24V			
EARTH				COMMON			

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	5.7
EARTH				COMMON			







SINEC L1 NETWORK  
A B

SIEMENS

SINEC L1  
SMARTIC 55 ET 377  
BUS TERMINAL  
6ES5 377-0BC00  
MADE IN GERMANY

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



Systeme Heinholz  
USB-Adapter  
für MPI-Bus  
LED on LED knob  
Power Update  
Active Param  
Connect Data  
CE  
S8W7-USB  
750-756-7K31  
HW 34  
FW 3.00  
MPI-Diag



ANALOG MONITOR PANEL

0 1 2 3  
MIN MAX MIN MAX  
LOCAL EXTEND



MONITOR  
3 2 1 0



MONITOR  
1 0

± 10 Volts

OUTPUTS

DIGITAL MONITOR PANEL

INPUTS

OUTPUTS

RESISTORIAL  
1W124

0000  
08 125

UV.0 UV.1 UV.2 UV.3 UV.4 UV.5 UV.6 UV.7  
IB 124 IB 126

UV.0 UV.1 UV.2 UV.3 UV.4 UV.5 UV.6 UV.7  
IB 124

24V DC COUNTER 5MHz/2MHz INTERRUPT

PG

6ES5 095-8MA01

1 3 4 5 6

SIMULATOR INPUT/OUTPUT 6ES5 788-8MA11

1 3 4 5 6

SIMULATOR INPUT/OUTPUT 6ES5 788-8MA11

1 3 4 5 6

SIMULATOR INPUT/OUTPUT 6ES5 788-8MA11

1 3 4 5 6



V.O.M University MODEL CTN-500MP

8K 4K2K 10K 500 300 200 150 100 80 60 50 40 30 20 15 10 5 0

DC

AC 10VAC

AC 10VAC

20,000Ω

0 dB 1mW 600 OHMS

NO.

New South Wales

TAFE 0501881

ELEC. OFF ENG

500 m Ω

50 m Ω

5 m Ω

50 μ Ω

2.5 Ω

10 Ω

50 Ω

250 Ω

500 Ω

COM

DC 5000V

Ω ADJUST

DC 500V

50 mV

50 V

250 & UP

+ V · Ω · A

2.7 2.6 2.5 2.4 2.3 2.2

DIGITAL

3.7 3.6 3.5 3.4 3.3

DIGITAL

4.7 4.6 4.5 4.4 4.3

DIGITAL

5.7 5.6 5.5 5.4

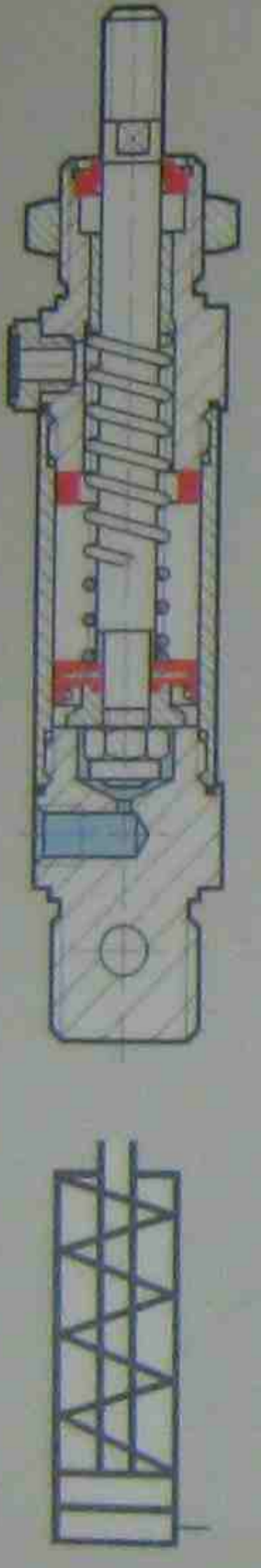
IB32 IB33

QB32 QB33

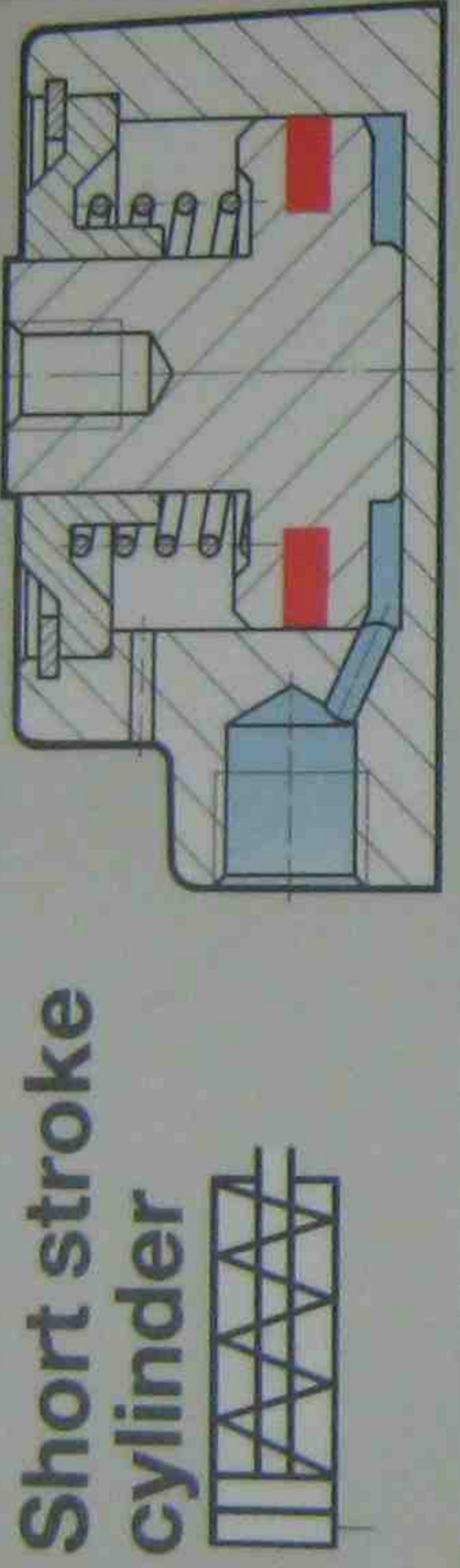
IW32

QW32

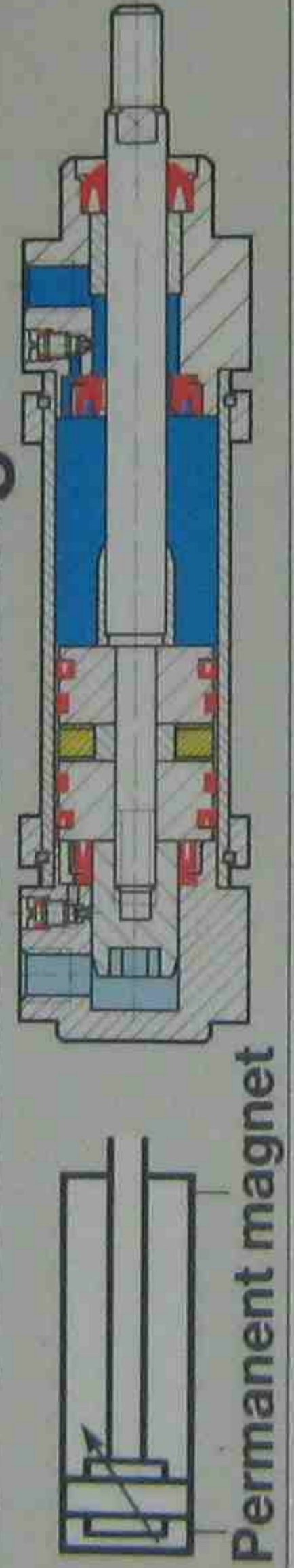
Single-acting cylinder



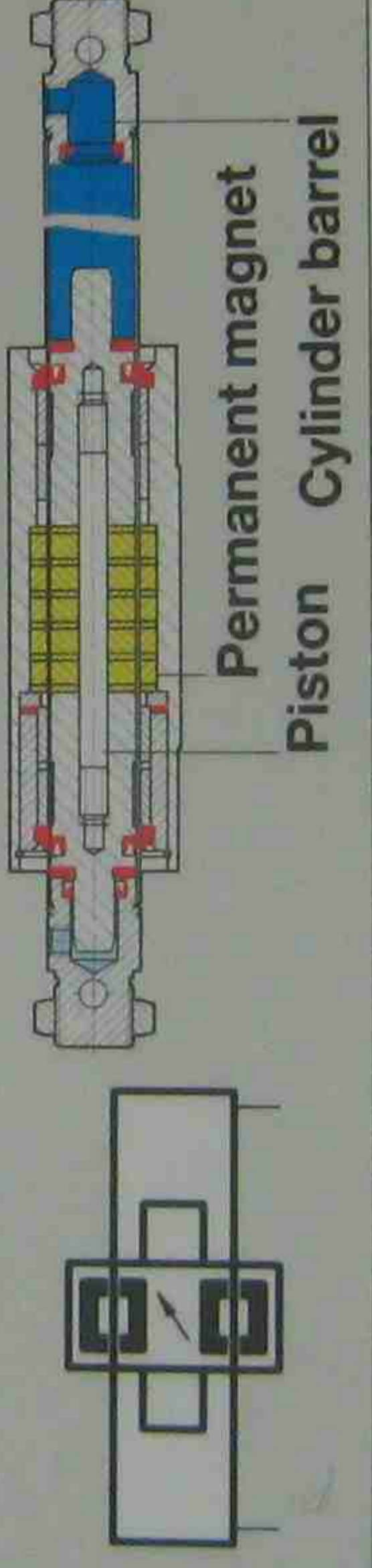
Short stroke cylinder



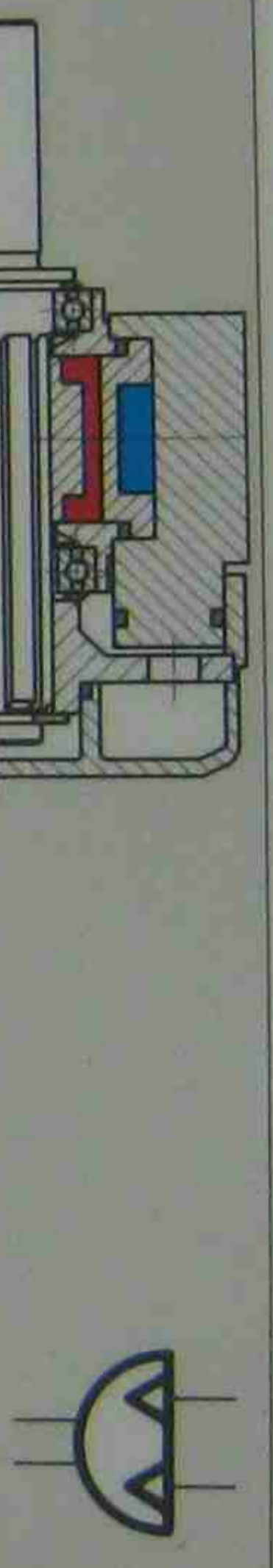
Double-acting cylinder for contactless sensing



Linear drive

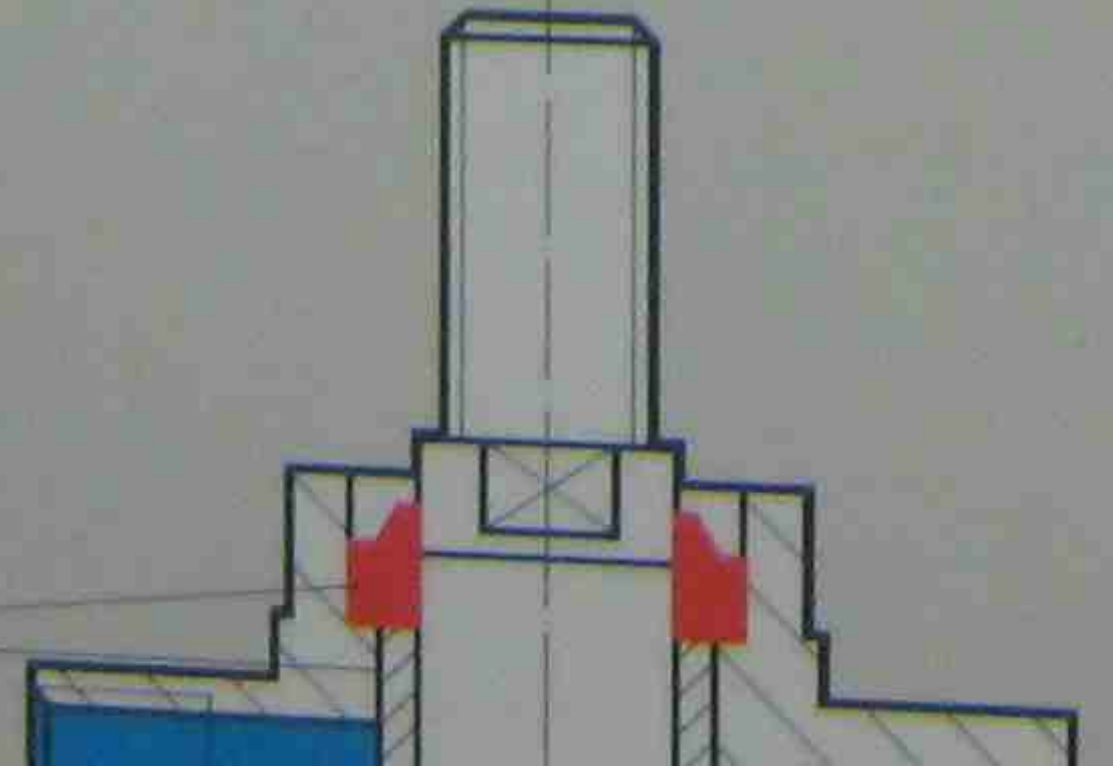


Rotary vane cylinder

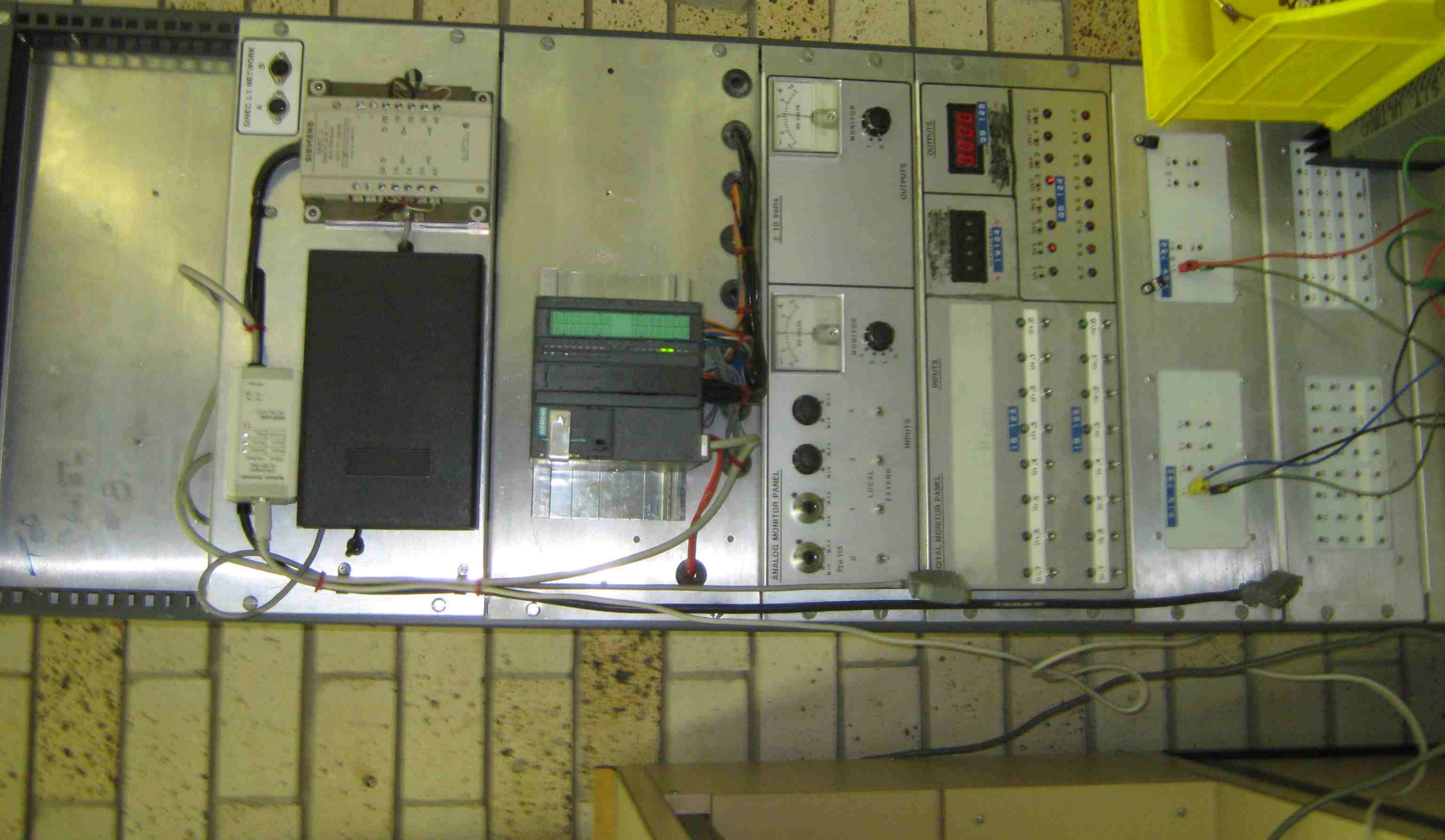


Guide bush

Wiper seal



ng cap



SINEC L1 NETWORK  
A B

SIEMENS  
Terminal Block

SIEMENS  
DIGITAL MONITOR PANEL

SIEMENS  
DIGITAL MONITOR PANEL

ANALOG MONITOR PANEL

± 10 Volts

MONITOR

MONITOR

DIGITAL MONITOR PANEL

INPUTS

OUTPUTS

0V0 0V1 0V2 0V3 0V4 0V5 0V6 0V7  
0V8 0V9 0V10 0V11 0V12 0V13 0V14 0V15  
0V16 0V17 0V18 0V19 0V20 0V21 0V22 0V23  
0V24 0V25 0V26 0V27 0V28 0V29 0V30 0V31  
0V32 0V33 0V34 0V35 0V36 0V37 0V38 0V39  
0V40 0V41 0V42 0V43 0V44 0V45 0V46 0V47  
0V48 0V49 0V50 0V51 0V52 0V53 0V54 0V55  
0V56 0V57 0V58 0V59 0V60 0V61 0V62 0V63  
0V64 0V65 0V66 0V67 0V68 0V69 0V70 0V71  
0V72 0V73 0V74 0V75 0V76 0V77 0V78 0V79  
0V80 0V81 0V82 0V83 0V84 0V85 0V86 0V87  
0V88 0V89 0V90 0V91 0V92 0V93 0V94 0V95  
0V96 0V97 0V98 0V99 0V100 0V101 0V102 0V103  
0V104 0V105 0V106 0V107 0V108 0V109 0V110 0V111  
0V112 0V113 0V114 0V115 0V116 0V117 0V118 0V119  
0V120 0V121 0V122 0V123 0V124 0V125 0V126 0V127  
0V128 0V129 0V130 0V131 0V132 0V133 0V134 0V135  
0V136 0V137 0V138 0V139 0V140 0V141 0V142 0V143  
0V144 0V145 0V146 0V147 0V148 0V149 0V150 0V151  
0V152 0V153 0V154 0V155 0V156 0V157 0V158 0V159  
0V160 0V161 0V162 0V163 0V164 0V165 0V166 0V167  
0V168 0V169 0V170 0V171 0V172 0V173 0V174 0V175  
0V176 0V177 0V178 0V179 0V180 0V181 0V182 0V183  
0V184 0V185 0V186 0V187 0V188 0V189 0V190 0V191  
0V192 0V193 0V194 0V195 0V196 0V197 0V198 0V199  
0V200 0V201 0V202 0V203 0V204 0V205 0V206 0V207  
0V208 0V209 0V210 0V211 0V212 0V213 0V214 0V215  
0V216 0V217 0V218 0V219 0V220 0V221 0V222 0V223  
0V224 0V225 0V226 0V227 0V228 0V229 0V230 0V231  
0V232 0V233 0V234 0V235 0V236 0V237 0V238 0V239  
0V240 0V241 0V242 0V243 0V244 0V245 0V246 0V247  
0V248 0V249 0V250 0V251 0V252 0V253 0V254 0V255  
0V256 0V257 0V258 0V259 0V260 0V261 0V262 0V263  
0V264 0V265 0V266 0V267 0V268 0V269 0V270 0V271  
0V272 0V273 0V274 0V275 0V276 0V277 0V278 0V279  
0V280 0V281 0V282 0V283 0V284 0V285 0V286 0V287  
0V288 0V289 0V290 0V291 0V292 0V293 0V294 0V295  
0V296 0V297 0V298 0V299 0V300 0V301 0V302 0V303  
0V304 0V305 0V306 0V307 0V308 0V309 0V310 0V311  
0V312 0V313 0V314 0V315 0V316 0V317 0V318 0V319  
0V320 0V321 0V322 0V323 0V324 0V325 0V326 0V327  
0V328 0V329 0V330 0V331 0V332 0V333 0V334 0V335  
0V336 0V337 0V338 0V339 0V340 0V341 0V342 0V343  
0V344 0V345 0V346 0V347 0V348 0V349 0V350 0V351  
0V352 0V353 0V354 0V355 0V356 0V357 0V358 0V359  
0V360 0V361 0V362 0V363 0V364 0V365 0V366 0V367  
0V368 0V369 0V370 0V371 0V372 0V373 0V374 0V375  
0V376 0V377 0V378 0V379 0V380 0V381 0V382 0V383  
0V384 0V385 0V386 0V387 0V388 0V389 0V390 0V391  
0V392 0V393 0V394 0V395 0V396 0V397 0V398 0V399  
0V400 0V401 0V402 0V403 0V404 0V405 0V406 0V407  
0V408 0V409 0V410 0V411 0V412 0V413 0V414 0V415  
0V416 0V417 0V418 0V419 0V420 0V421 0V422 0V423  
0V424 0V425 0V426 0V427 0V428 0V429 0V430 0V431  
0V432 0V433 0V434 0V435 0V436 0V437 0V438 0V439  
0V440 0V441 0V442 0V443 0V444 0V445 0V446 0V447  
0V448 0V449 0V450 0V451 0V452 0V453 0V454 0V455  
0V456 0V457 0V458 0V459 0V460 0V461 0V462 0V463  
0V464 0V465 0V466 0V467 0V468 0V469 0V470 0V471  
0V472 0V473 0V474 0V475 0V476 0V477 0V478 0V479  
0V480 0V481 0V482 0V483 0V484 0V485 0V486 0V487  
0V488 0V489 0V490 0V491 0V492 0V493 0V494 0V495  
0V496 0V497 0V498 0V499 0V500 0V501 0V502 0V503  
0V504 0V505 0V506 0V507 0V508 0V509 0V510 0V511  
0V512 0V513 0V514 0V515 0V516 0V517 0V518 0V519  
0V520 0V521 0V522 0V523 0V524 0V525 0V526 0V527  
0V528 0V529 0V530 0V531 0V532 0V533 0V534 0V535  
0V536 0V537 0V538 0V539 0V540 0V541 0V542 0V543  
0V544 0V545 0V546 0V547 0V548 0V549 0V550 0V551  
0V552 0V553 0V554 0V555 0V556 0V557 0V558 0V559  
0V560 0V561 0V562 0V563 0V564 0V565 0V566 0V567  
0V568 0V569 0V570 0V571 0V572 0V573 0V574 0V575  
0V576 0V577 0V578 0V579 0V580 0V581 0V582 0V583  
0V584 0V585 0V586 0V587 0V588 0V589 0V590 0V591  
0V592 0V593 0V594 0V595 0V596 0V597 0V598 0V599  
0V600 0V601 0V602 0V603 0V604 0V605 0V606 0V607  
0V608 0V609 0V610 0V611 0V612 0V613 0V614 0V615  
0V616 0V617 0V618 0V619 0V620 0V621 0V622 0V623  
0V624 0V625 0V626 0V627 0V628 0V629 0V630 0V631  
0V632 0V633 0V634 0V635 0V636 0V637 0V638 0V639  
0V640 0V641 0V642 0V643 0V644 0V645 0V646 0V647  
0V648 0V649 0V650 0V651 0V652 0V653 0V654 0V655  
0V656 0V657 0V658 0V659 0V660 0V661 0V662 0V663  
0V664 0V665 0V666 0V667 0V668 0V669 0V670 0V671  
0V672 0V673 0V674 0V675 0V676 0V677 0V678 0V679  
0V680 0V681 0V682 0V683 0V684 0V685 0V686 0V687  
0V688 0V689 0V690 0V691 0V692 0V693 0V694 0V695  
0V696 0V697 0V698 0V699 0V700 0V701 0V702 0V703  
0V704 0V705 0V706 0V707 0V708 0V709 0V710 0V711  
0V712 0V713 0V714 0V715 0V716 0V717 0V718 0V719  
0V720 0V721 0V722 0V723 0V724 0V725 0V726 0V727  
0V728 0V729 0V730 0V731 0V732 0V733 0V734 0V735  
0V736 0V737 0V738 0V739 0V740 0V741 0V742 0V743  
0V744 0V745 0V746 0V747 0V748 0V749 0V750 0V751  
0V752 0V753 0V754 0V755 0V756 0V757 0V758 0V759  
0V760 0V761 0V762 0V763 0V764 0V765 0V766 0V767  
0V768 0V769 0V770 0V771 0V772 0V773 0V774 0V775  
0V776 0V777 0V778 0V779 0V780 0V781 0V782 0V783  
0V784 0V785 0V786 0V787 0V788 0V789 0V790 0V791  
0V792 0V793 0V794 0V795 0V796 0V797 0V798 0V799  
0V800 0V801 0V802 0V803 0V804 0V805 0V806 0V807  
0V808 0V809 0V810 0V811 0V812 0V813 0V814 0V815  
0V816 0V817 0V818 0V819 0V820 0V821 0V822 0V823  
0V824 0V825 0V826 0V827 0V828 0V829 0V830 0V831  
0V832 0V833 0V834 0V835 0V836 0V837 0V838 0V839  
0V840 0V841 0V842 0V843 0V844 0V845 0V846 0V847  
0V848 0V849 0V850 0V851 0V852 0V853 0V854 0V855  
0V856 0V857 0V858 0V859 0V860 0V861 0V862 0V863  
0V864 0V865 0V866 0V867 0V868 0V869 0V870 0V871  
0V872 0V873 0V874 0V875 0V876 0V877 0V878 0V879  
0V880 0V881 0V882 0V883 0V884 0V885 0V886 0V887  
0V888 0V889 0V890 0V891 0V892 0V893 0V894 0V895  
0V896 0V897 0V898 0V899 0V900 0V901 0V902 0V903  
0V904 0V905 0V906 0V907 0V908 0V909 0V910 0V911  
0V912 0V913 0V914 0V915 0V916 0V917 0V918 0V919  
0V920 0V921 0V922 0V923 0V924 0V925 0V926 0V927  
0V928 0V929 0V930 0V931 0V932 0V933 0V934 0V935  
0V936 0V937 0V938 0V939 0V940 0V941 0V942 0V943  
0V944 0V945 0V946 0V947 0V948 0V949 0V950 0V951  
0V952 0V953 0V954 0V955 0V956 0V957 0V958 0V959  
0V960 0V961 0V962 0V963 0V964 0V965 0V966 0V967  
0V968 0V969 0V970 0V971 0V972 0V973 0V974 0V975  
0V976 0V977 0V978 0V979 0V980 0V981 0V982 0V983  
0V984 0V985 0V986 0V987 0V988 0V989 0V990 0V991  
0V992 0V993 0V994 0V995 0V996 0V997 0V998 0V999  
0V1000 0V1001 0V1002 0V1003 0V1004 0V1005 0V1006  
0V1007 0V1008 0V1009 0V1010 0V1011 0V1012 0V1013  
0V1014 0V1015 0V1016 0V1017 0V1018 0V1019 0V1020  
0V1021 0V1022 0V1023 0V1024 0V1025 0V1026 0V1027  
0V1028 0V1029 0V1030 0V1031 0V1032 0V1033 0V1034  
0V1035 0V1036 0V1037 0V1038 0V1039 0V1040 0V1041  
0V1042 0V1043 0V1044 0V1045 0V1046 0V1047 0V1048  
0V1049 0V1050 0V1051 0V1052 0V1053 0V1054 0V1055  
0V1056 0V1057 0V1058 0V1059 0V1060 0V1061 0V1062  
0V1063 0V1064 0V1065 0V1066 0V1067 0V1068 0V1069  
0V1070 0V1071 0V1072 0V1073 0V1074 0V1075 0V1076  
0V1077 0V1078 0V1079 0V1080 0V1081 0V1082 0V1083  
0V1084 0V1085 0V1086 0V1087 0V1088 0V1089 0V1090  
0V1091 0V1092 0V1093 0V1094 0V1095 0V1096 0V1097  
0V1098 0V1099 0V1100 0V1101 0V1102 0V1103 0V1104  
0V1105 0V1106 0V1107 0V1108 0V1109 0V1110 0V1111  
0V1112 0V1113 0V1114 0V1115 0V1116 0V1117 0V1118  
0V1119 0V1120 0V1121 0V1122 0V1123 0V1124 0V1125  
0V1126 0V1127 0V1128 0V1129 0V1130 0V1131 0V1132  
0V1133 0V1134 0V1135 0V1136 0V1137 0V1138 0V1139  
0V1140 0V1141 0V1142 0V1143 0V1144 0V1145 0V1146  
0V1147 0V1148 0V1149 0V1150 0V1151 0V1152 0V1153  
0V1154 0V1155 0V1156 0V1157 0V1158 0V1159 0V1160  
0V1161 0V1162 0V1163 0V1164 0V1165 0V1166 0V1167  
0V1168 0V1169 0V1170 0V1171 0V1172 0V1173 0V1174  
0V1175 0V1176 0V1177 0V1178 0V1179 0V1180 0V1181  
0V1182 0V1183 0V1184 0V1185 0V1186 0V1187 0V1188  
0V1189 0V1190 0V1191 0V1192 0V1193 0V1194 0V1195  
0V1196 0V1197 0V1198 0V1199 0V1200 0V1201 0V1202  
0V1203 0V1204 0V1205 0V1206 0V1207 0V1208 0V1209  
0V1210 0V1211 0V1212 0V1213 0V1214 0V1215 0V1216  
0V1217 0V1218 0V1219 0V1220 0V1221 0V1222 0V1223  
0V1224 0V1225 0V1226 0V1227 0V1228 0V1229 0V1230  
0V1231 0V1232 0V1233 0V1234 0V1235 0V1236 0V1237  
0V1238 0V1239 0V1240 0V1241 0V1242 0V1243 0V1244  
0V1245 0V1246 0V1247 0V1248 0V1249 0V1250 0V1251  
0V1252 0V1253 0V1254 0V1255 0V1256 0V1257 0V1258  
0V1259 0V1260 0V1261 0V1262 0V1263 0V1264 0V1265  
0V1266 0V1267 0V1268 0V1269 0V1270 0V1271 0V1272  
0V1273 0V1274 0V1275 0V1276 0V1277 0V1278 0V1279  
0V1280 0V1281 0V1282 0V1283 0V1284 0V1285 0V1286  
0V1287 0V1288 0V1289 0V1290 0V1291 0V1292 0V1293  
0V1294 0V1295 0V1296 0V1297 0V1298 0V1299 0V1300  
0V1301 0V1302 0V1303 0V1304 0V1305 0V1306 0V1307  
0V1308 0V1309 0V1310 0V1311 0V1312 0V1313 0V1314  
0V1315 0V1316 0V1317 0V1318 0V1319 0V1320 0V1321  
0V1322 0V1323 0V1324 0V1325 0V1326 0V1327 0V1328  
0V1329 0V1330 0V1331 0V1332 0V1333 0V1334 0V1335  
0V1336 0V1337 0V1338 0V1339 0V1340 0V1341 0V1342  
0V1343 0V1344 0V1345 0V1346 0V1347 0V1348 0V1349  
0V1350 0V1351 0V1352 0V1353 0V1354 0V1355 0V1356  
0V1357 0V1358 0V1359 0V1360 0V1361 0V1362 0V1363  
0V1364 0V1365 0V1366 0V1367 0V1368 0V1369 0V1370  
0V1371 0V1372 0V1373 0V1374 0V1375 0V1376 0V1377  
0V1378 0V1379 0V1380 0V1381 0V1382 0V1383 0V1384  
0V1385 0V1386 0V1387 0V1388 0V1389 0V1390 0V1391  
0V1392 0V1393 0V1394 0V1395 0V1396 0V1397 0V1398  
0V1399 0V1400 0V1401 0V1402 0V1403 0V1404 0V1405  
0V1406 0V1407 0V1408 0V1409 0V1410 0V1411 0V1412  
0V1413 0V1414 0V1415 0V1416 0V1417 0V1418 0V1419  
0V1420 0V1421 0V1422 0V1423 0V1424 0V1425 0V1426  
0V1427 0V1428 0V1429 0V1430 0V1431 0V1432 0V1433  
0V1434 0V1435 0V1436 0V1437 0V1438 0V1439 0V1440  
0V1441 0V1442 0V1443 0V1444 0V1445 0V1446 0V1447  
0V1448 0V1449 0V1450 0V1451 0V1452 0V1453 0V1454  
0V1455 0V1456 0V1457 0V1458 0V1459 0V1460 0V1461  
0V1462 0V1463 0V1464 0V1465 0V1466 0V1467 0V1468  
0V1469 0V1470 0V1471 0V1472 0V1473 0V1474 0V1475  
0V1476 0V1477 0V1478 0V1479 0V1480 0V1481 0V1482  
0V1483 0V1484 0V1485 0V1486 0V1487 0V1488 0V1489  
0V1490 0V1491 0V1492 0V1493 0V1494 0V1495 0V1496  
0V1497 0V1498 0V1499 0V1500 0V1501 0V1502 0V1503  
0V1504 0V1505 0V1506 0V1507 0V1508 0V1509 0V1510  
0V1511 0V1512 0V1513 0V1514 0V1515 0V1516 0V1517  
0V1518 0V1519 0V1520 0V1521 0V1522 0V1523 0V1524  
0V1525 0V1526 0V1527 0V1528 0V1529 0V1530 0V1531  
0V1532 0V1533 0V1534 0V1535 0V1536 0V1537 0V1538  
0V1539 0V1540 0V1541 0V1542 0V1543 0V1544 0V1545  
0V1546 0V1547 0V1548 0V1549 0V1550 0V1551 0V1552  
0V1553 0V1554 0V1555 0V1556 0V1557 0V1558 0V1559  
0V1560 0V1561 0V1562 0V1563 0V1564 0V1565 0V1566  
0V1567 0V1568 0V1569 0V1570 0V1571 0V1572 0V1573  
0V1574 0V1575 0V1576 0V1577 0V1578 0V1579 0V1580  
0V1581 0V1582 0V1583 0V1584 0V1585 0V1586 0V1587  
0V1588 0V1589 0V1590 0V1591 0V1592 0V1593 0V1594  
0V1595 0V1596 0V1597 0V1598 0V1599 0V1600 0V1601  
0V1602 0V1603 0V1604 0V1605 0V1606 0V1607 0V1608  
0V1609 0V1610 0V1611 0V1612 0V1613 0V1614 0V1615  
0V1616 0V1617 0V1618 0V1619 0V1620 0V1621 0V1622  
0V1623 0V1624 0V1625 0V1626 0V1627 0V1628 0V1629  
0V1630 0V1631 0V1632 0V1633 0V1634 0V1635 0V1636  
0V1637 0V1638 0V1639 0V1640 0V1641 0V1642 0V1643  
0V1644 0V1645 0V1646 0V1647 0V1648 0V1649 0V1650  
0V1651 0V1652 0V1653 0V1654 0V1655 0V1656 0V1657  
0V1658 0V1659 0V1660 0V1661 0V1662 0V1663 0V1664  
0V1665 0V1666 0V1667 0V1668 0V1669 0V1670 0V1671  
0V1672 0V1673 0V1674 0V1675 0V1676 0V1677 0V1678  
0V1679 0V1680 0V1681 0V1682 0V1683 0V1684 0V1685  
0V1686 0V1687 0V1688 0V1689 0V1690 0V1691 0V1692  
0V1693 0V1694 0V1695 0V1696 0V1697 0V1698 0V1699  
0V1700 0V1701 0V1702 0V1703 0V1704 0V1705 0V1706  
0V1707 0V1708 0V1709 0V1710 0V1711 0V1712 0V1713  
0V1714 0V1715 0V1716 0V1717 0V1718 0V1719 0V1720  
0V1721 0V1722 0V1723 0V1724 0V1725 0V1726 0V1727  
0V1728 0V1729 0V1730 0V1731 0V1732 0V1733 0V1734  
0V1735 0V1736 0V1737 0V1738 0V1739 0V1740 0V1741  
0V1742 0V1743 0V1744 0V1745 0V1746 0V1747 0V1748  
0V1749 0V1750 0V1751 0V1752 0V1753 0V1754 0V1755  
0V1756 0V1757 0V1758 0V1759 0V1760 0V1761 0V1762  
0V1763 0V1764 0V1765 0V1766 0V1767 0V1768 0V1769  
0V1770 0V1771 0V1772 0V1773 0V1774 0V1775 0V1776  
0V1777 0V1778 0V1779 0V1780 0V1781 0V1782 0V1783  
0V1784 0V1785 0V1786 0V1787 0V1788 0V1789 0V1790  
0V1791

SIEMENS

System Manager  
USB Adapter  
for MPI Bus  
1.80 m 1.80 m  
Power: LED Bus  
Action: Update: 4.0  
Command: Param: 4.0  
Data: 0.0

SWT-USB  
100-120 VAC/21  
100 W  
FV: 3/2  
500 mA

POWER

INPUTS

OUTPUT WORD

SIT - ULTIMATE INDUSTRIAL ELECTRONICS S-102 PLC TRAINING UNIT

1W 124

A white SIT S-102 PLC Training Unit is shown. On top, a Siemens PLC with a green display is connected to a white USB adapter. The front panel features a power switch, a row of eight toggle switches, and eight input channels labeled 0.7 to 0.0. Each channel has a yellow input jack and a blue output jack. A digital display and a 7-segment output word display are on the right. A blue and red power cable is plugged into the front.

V

VOLTAGE

A

CURRENT

POWER SUPPLY

A blue power supply unit with a black front panel. It features a voltmeter at the top and an ammeter below it. On the right side, there are controls for voltage (V), current (A), and power. At the bottom, there are terminals for power supply and ground. Red and blue power cables are connected to the bottom terminals.

digital

A standard white computer keyboard with a numeric keypad. The keyboard is positioned in front of the training unit. The numeric keypad has a 'digital' logo at the top.



**SIEMENS SIMATIC S5-100V**  
 24V DC 5A  
 6ES5 100-1EA01-0AB0

**SIEMENS SIMATIC S5-95U**  
 RUN  
 STOP  
 RUN/STOP COPY

ANALOG IN/OUT  
 IN: 0...+5V  
 W: 0...+20V  
 OUT: 0...+20mA

24V DC  
 QUANTITY  
 500/2000  
 INTERPRET

6ES5 090-1AA01-0AB0

60Hz/60Hz  
**VOLTAGE SELECTOR**

CAUTION  
 TO AVOID ELECTRICAL SHOCK, THE INSULATING COVER OF THE POWER CORD SHOULD BE CONNECTED WITH THAT OF AC SOURCE. DO NOT REMOVE OR DISASSEMBLE THE COVER.  
 TO REPLACE THE FUSE, APPLY AN APPROPRIATE ONE IN TYPE AND VOLTAGE RATING.

FUSE SFL  
 100 - 120V 0.2A  
 200 - 240V 0.2A

NO 204107  
 P.C. PASSED

**10**

IN OUT

0 1 2 3 4 5 6 7

**SIMULATOR INPUT/OUTPUT**  
 6ES5 788-8MA11  
 [1][2][3][4][5][6]

**SIMULATOR INPUT/OUTPUT**  
 6ES5 788-8MA11  
 [1][2][3][4][5][6]

**DIGITAL OUTPUT**  
 8x24V DC/0.5A  
 6ES5 441-8MA11  
 [1][2][3][4]

**DIGITAL OUTPUT**  
 8x24V DC/0.5A  
 6ES5 441-8MA11  
 [1][2][3][4]

**SIEMENS SIMATIC 85 BUS MODULE**  
 6ES5 700-8MA11  
 [1][2][3][4][5][6]

MADE IN GERMANY

Terminal block with multiple rows of screw terminals and associated wiring.

**V.O.M. University MODEL CTN-500MP**

H.1.35

OFF

R x 1000 500 m  
 R x 100 50 m  
 R x 10 5 m  
 R x 1 50 μ

10 2.5  
 50 10  
 250 50  
 500 250 & UP

COM DC 5000V R ADJUST DC 500V + V R A

**DIGITAL INPUTS**

2.7 2.6 2.5 2.4 2.3 2.2 2.1 2.0

**DIGITAL OUTPUTS**

3.7 3.6 3.5 3.4 3.3 3.2 3.1 3.0

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

**QB32 QB33 IB32 IB33**

**QW32 IW32**

0000



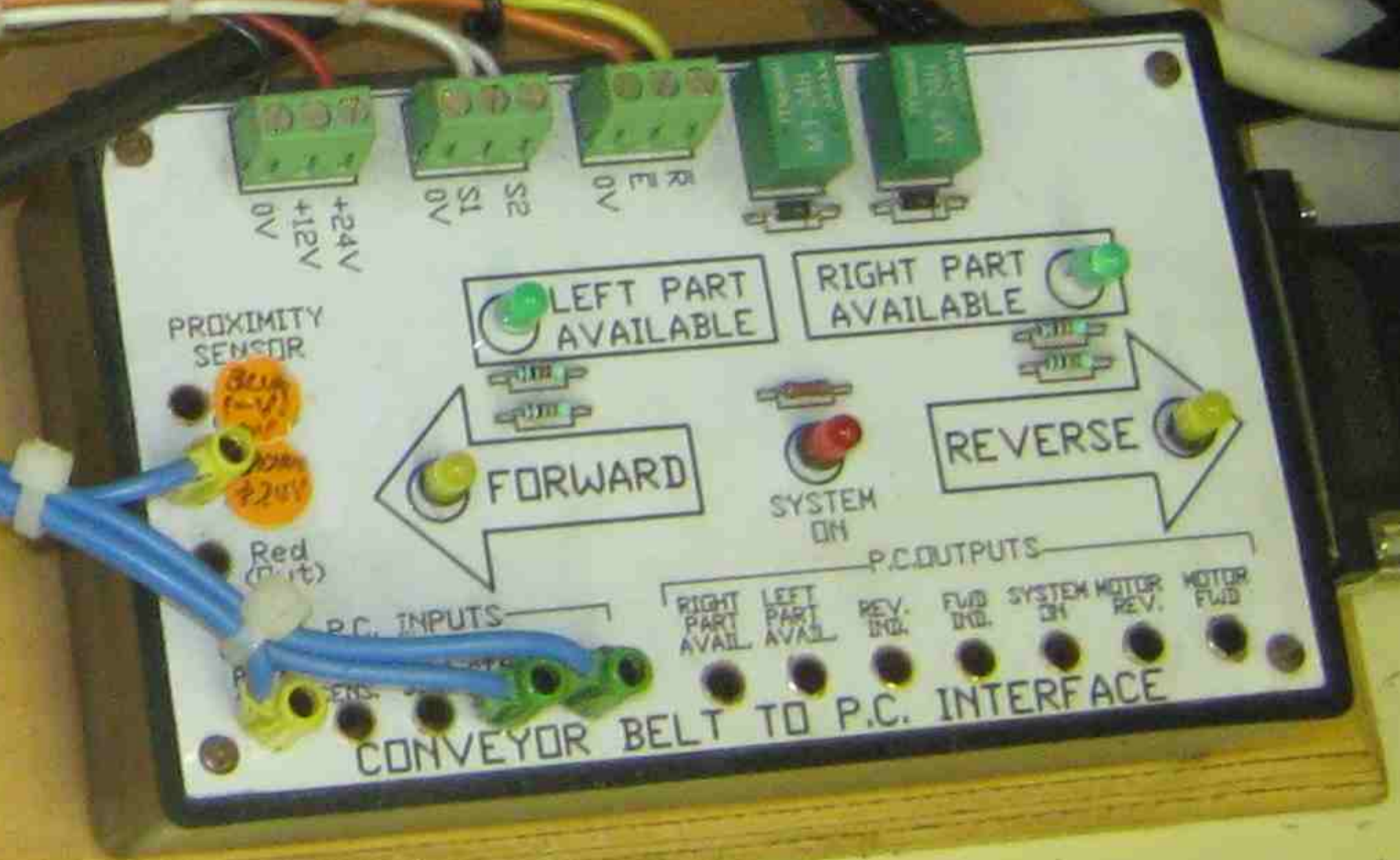


Input	Output
10.0	10.0
10.1	10.1
10.2	10.2
10.3	10.3
10.4	10.4
10.5	10.5
10.6	10.6
10.7	10.7
10.8	10.8
10.9	10.9
11.0	11.0
11.1	11.1
11.2	11.2
11.3	11.3
11.4	11.4
11.5	11.5
11.6	11.6
11.7	11.7
11.8	11.8
11.9	11.9

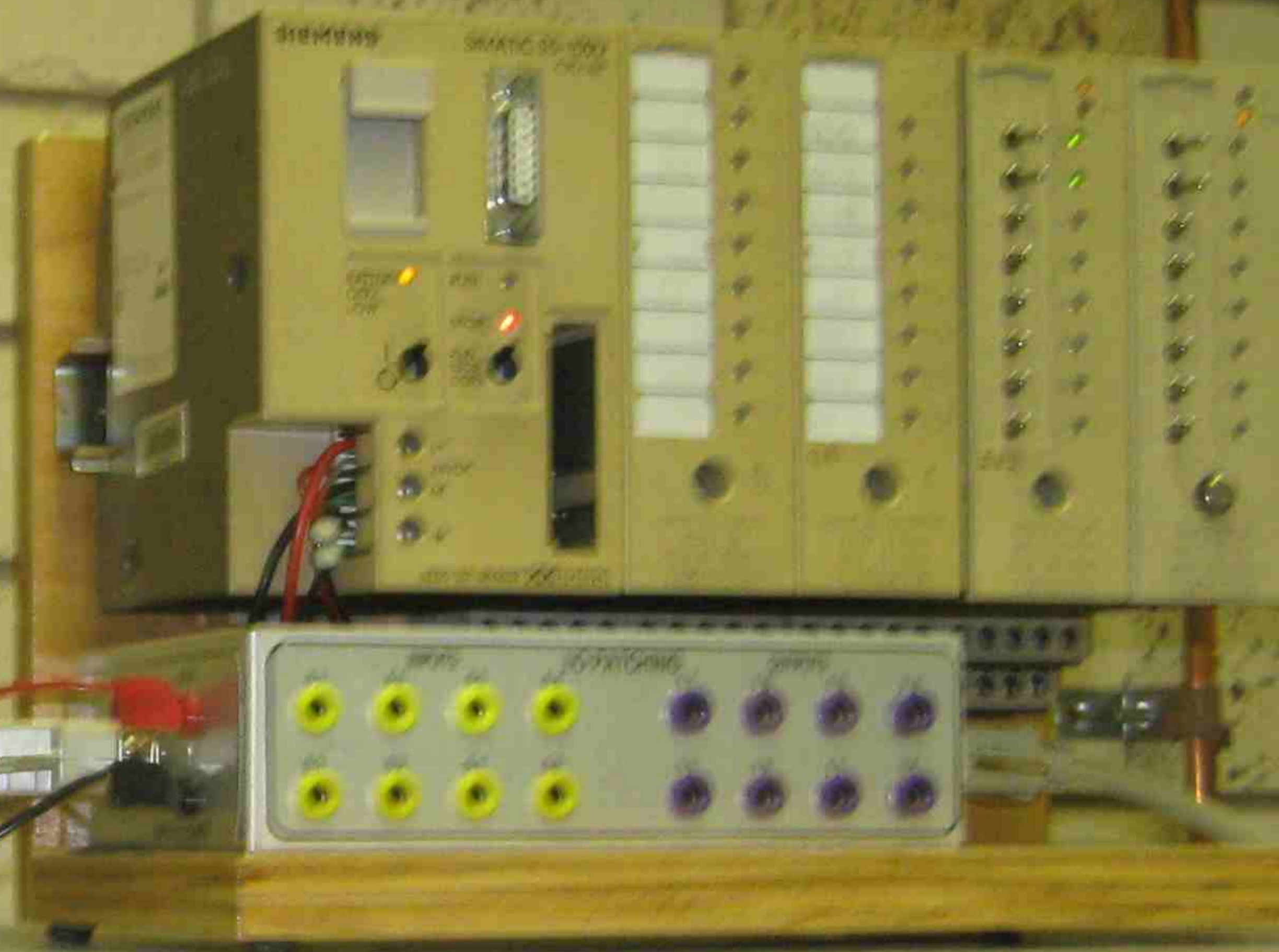
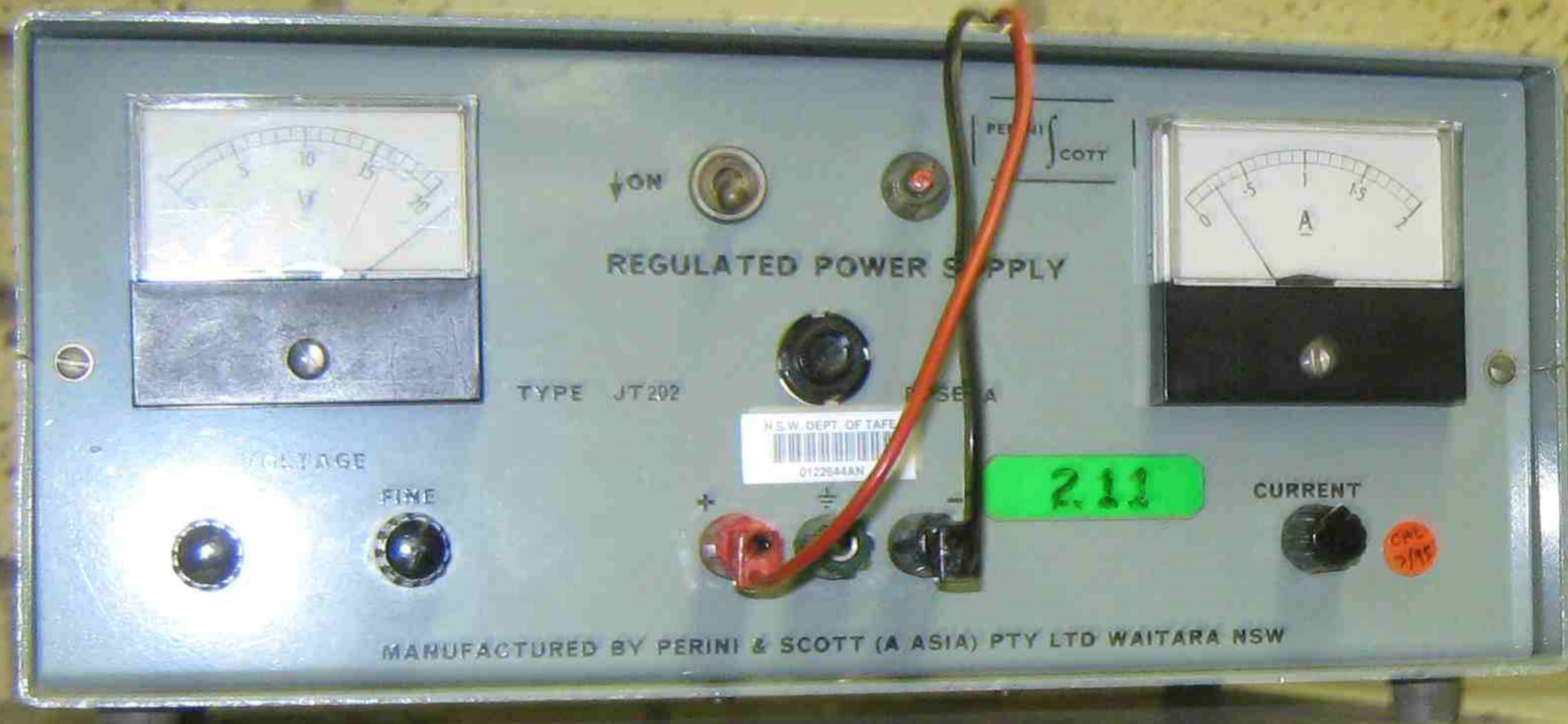
21



	Inputs	Outputs
Stop	I0.0	Fwd Q1.0
Start	I0.1	Rev Q1.1
Sensor 1	I0.2	System On Q1.3
Sensor 2	I0.3	FWD Light Q1.4
Jog/Rev	I0.7	Rev Light Q1.5
		LPA Q1.6
		RPA Q1.7



1



SINEC L1 NETWORK  
A B

SIEMENS  
SINEC L1  
SIMATIC 32-ET-111  
PLC TERMINAL  
6ES5 111-0BA0-0A0  
MADE IN GERMANY

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



SIEMENS SIMATIC 32-ET-111

IBO ANALOG INPUT  
Operating mode: 1 M, 2 M, 3 M, 4 M, 5 M, 6 M, 7 M, 8 M, 9 M, 10 M

ANALOG OUTPUT  
4-20mA  
FUSE

IB3 QB3 DIGITAL INPUT  
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

IB4 QB4 DIGITAL OUTPUT  
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



4 - 20mA  
LOCAL  
EXTEND



ANALOG MONITOR PANEL  
MIN MAX MIN MAX MIN MAX  
0 1 2 3  
LOCAL  
EXTEND

OUTPUTS  
QW32  
RED DIGITAL

IW32  
HEX DIGITAL

4.0  
4.1  
4.2  
4.3  
4.4  
4.5  
4.6  
4.7

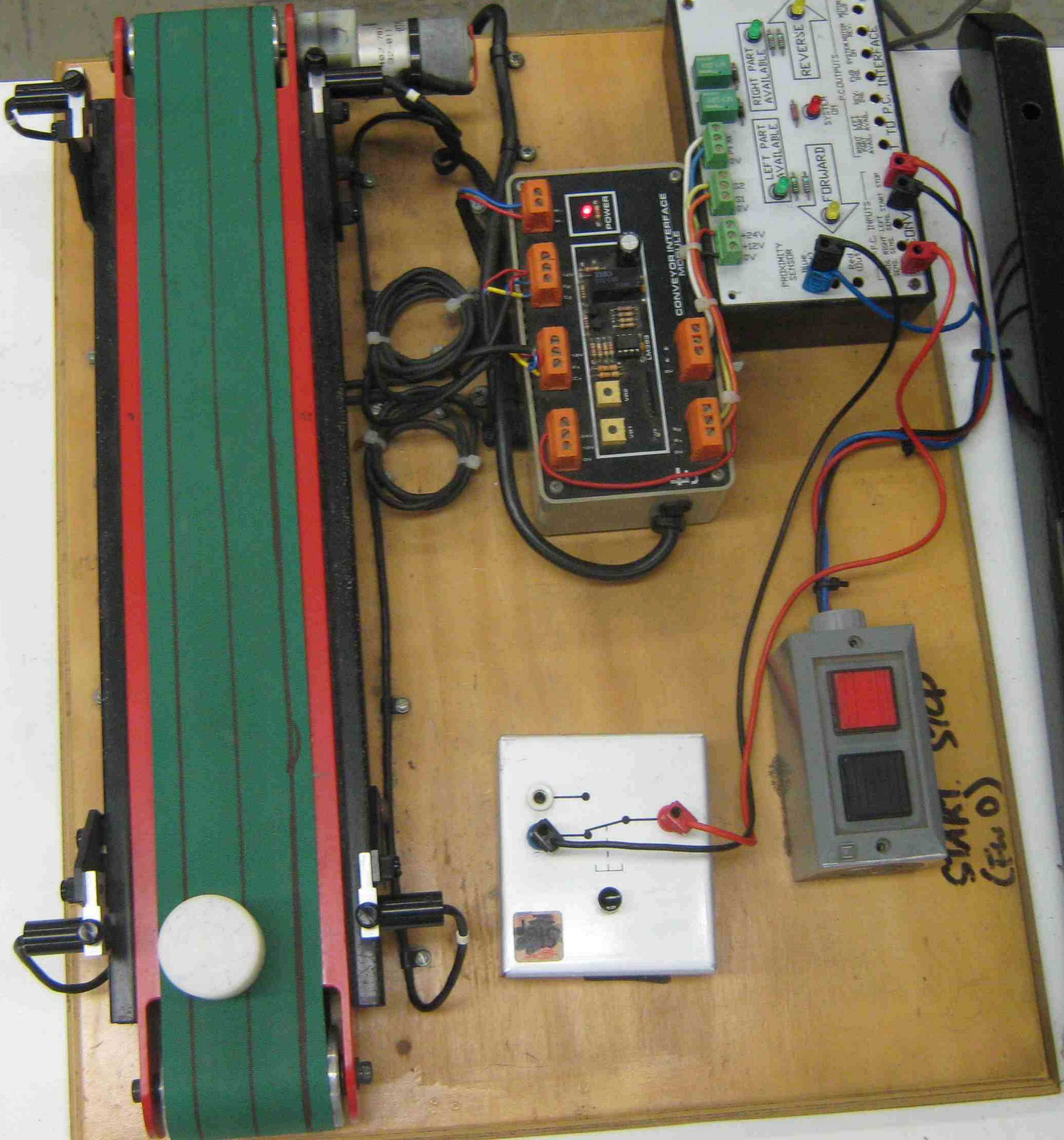
5.0  
5.1  
5.2  
5.3  
5.4  
5.5  
5.6  
5.7

DIGITAL MONITOR PANEL

INPUTS

2.0  
2.1  
2.2  
2.3  
2.4  
2.5  
2.6  
2.7

3.0  
3.1  
3.2  
3.3  
3.4  
3.5  
3.6  
3.7





SIEMENS SIMATIC S5-100U

BATTERY OFF LOW RUN STOP

5 3 2 1

INPUTS 05 06 07 08

LO PATCHING 10 11 12 13

OUTPUTS 14 15 16 17

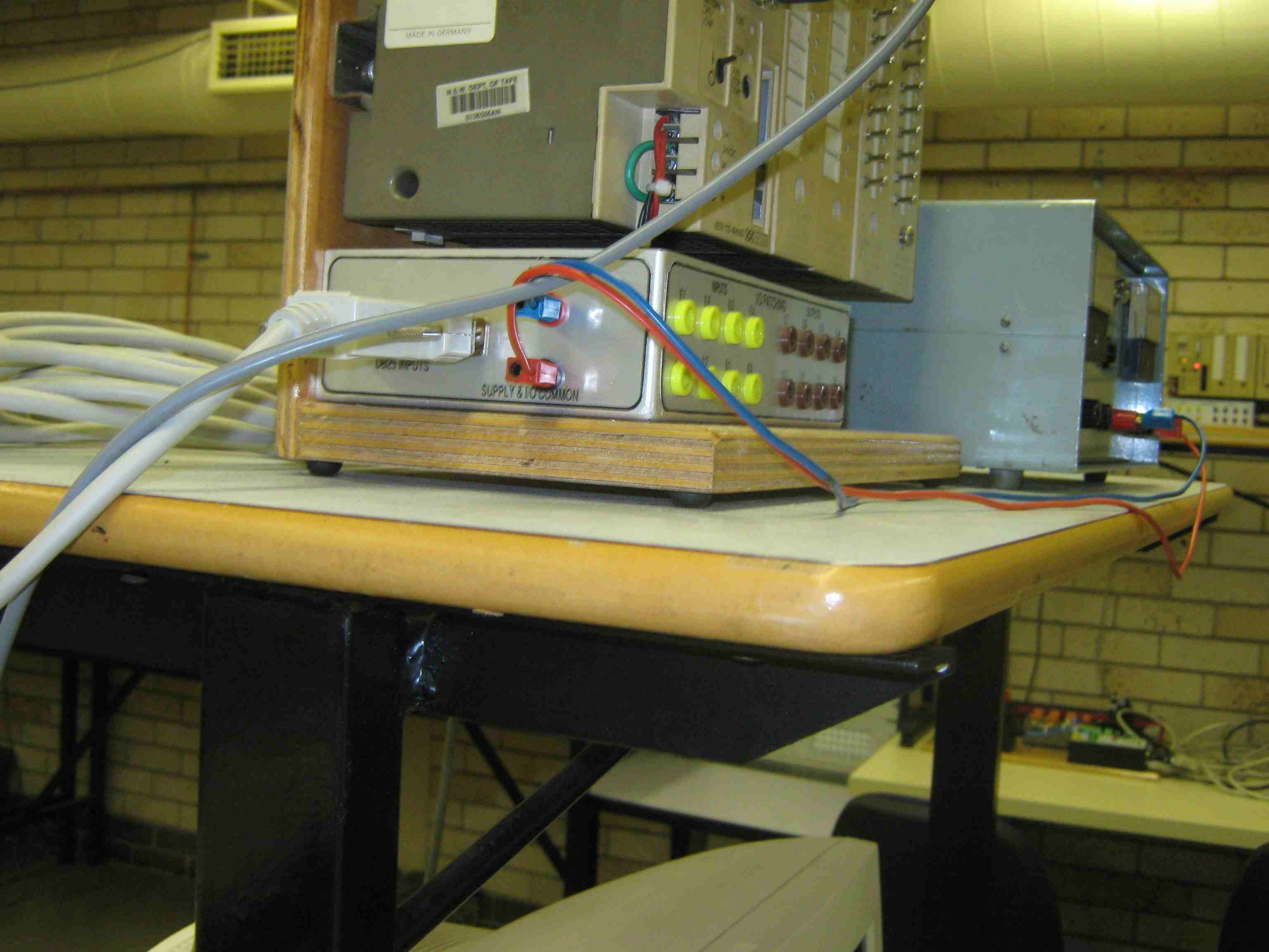
REGULATED POWER SUPPLY

VOLTAGE COARSE FINE

MANUFACTURED BY PERKINS SCOTT (ASIA)

Stack of electronic test equipment including an oscilloscope and a signal generator.





MADE IN GERMANY

U.S. N. DEPT. OF TAPS  
519556AN

DB25 INPUTS

SUPPLY & I/O COMMON

INPUTS  
10 PRECISION  
OUTPUTS