



SciSys

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C O N T E N T S

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- B - BLOCK DIAGRAM**
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Doc. No. : VCON-PG-011

Rev. : 1

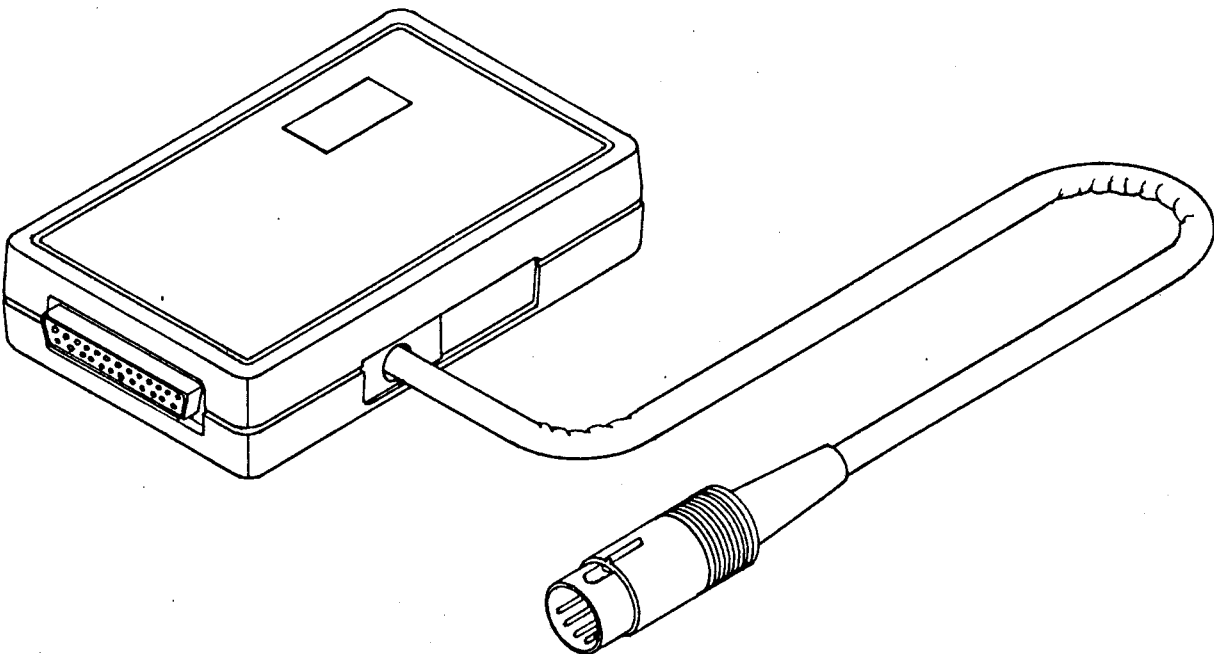
Date : 12/11/86

RS-232C ADAPTER I GENERAL PRODUCT SPECIFICATION

- A. Current Consumption : a) At V+ terminal with V+ = 8.0V
10.0mA typical
12.5mA max.
- b) At VBAT terminal with VBAT = 5.0V
8.5mA typical
12.0mA max.
- B. Total Power Consumption : 120mW typical
160mW max.

Adapter I

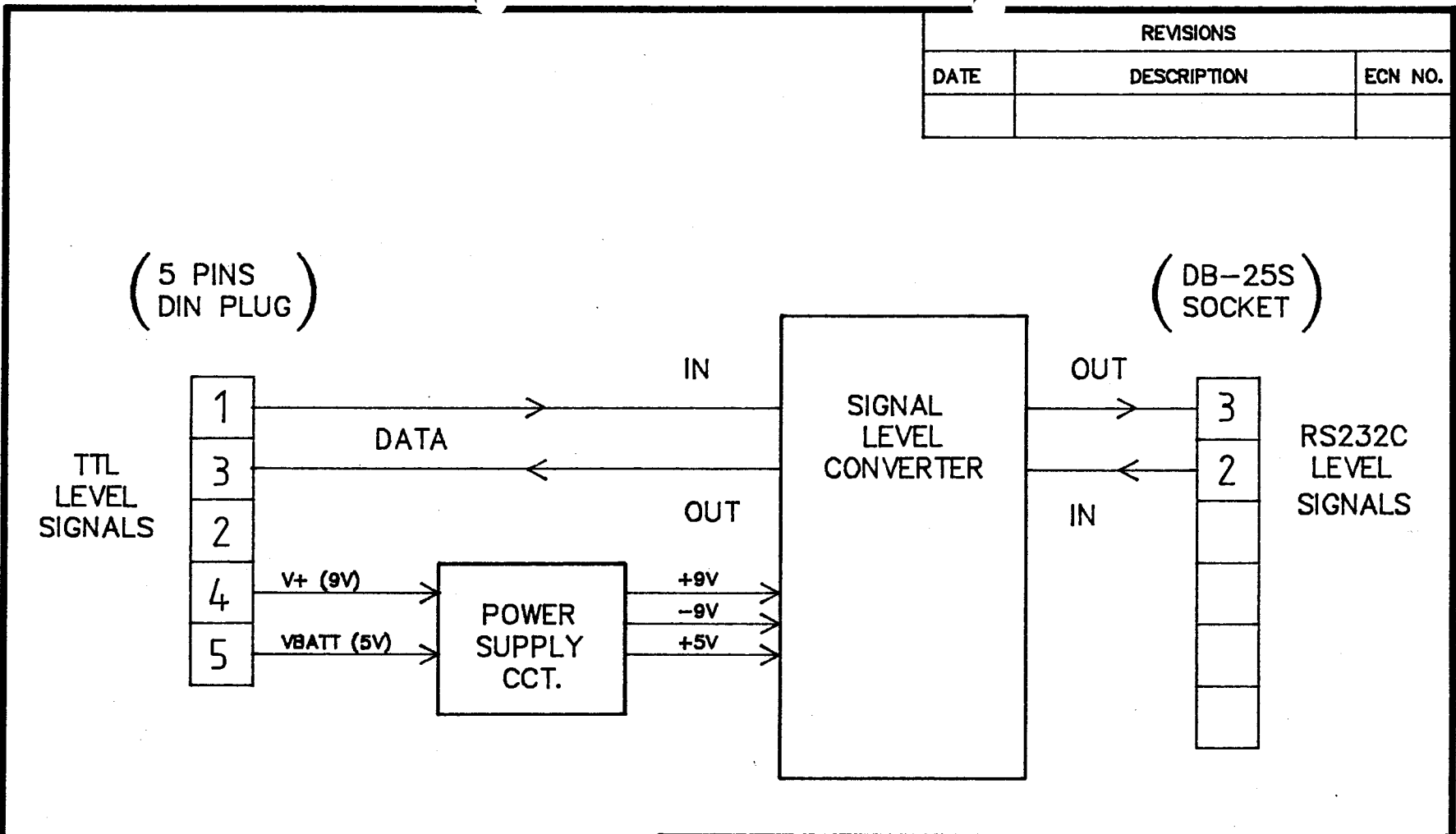
Art No. 590



Note: This was a universal RS232C adapter.

We stopped to produce this model in September 1987. It is replaced by Adapter Ia, II and III.

| REVISIONS | | |
|-----------|-------------|---------|
| DATE | DESCRIPTION | ECN NO. |
| | | |



| | | | |
|--------------------|---------|--------------------------|-------------------|
| APPROVALS | DATE | SciSys-W Ltd. | |
| DRAWN Ed.W | 17/3/87 | | |
| R.E. # <i>Ed.W</i> | 19.3.87 | TITLE: | RS-232C ADAPTOR I |
| P.I.E. <i>Ed.W</i> | 20.3.87 | 590 | BLOCK DIAGRAM |
| Q.A. <i>Ed.W</i> | 20.3.87 | DWG. NO. VCON - PE - 012 | REV. 0 |

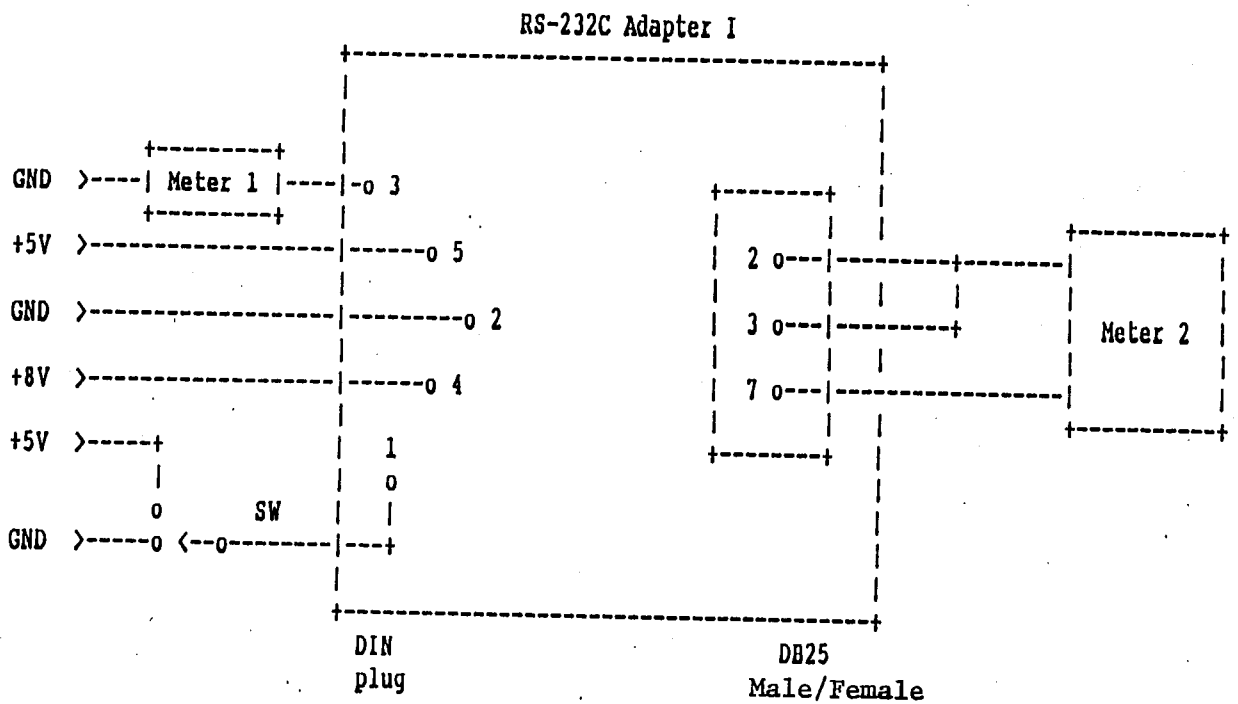
VCON
IN CIRCUIT TEST (Troubleshooting)

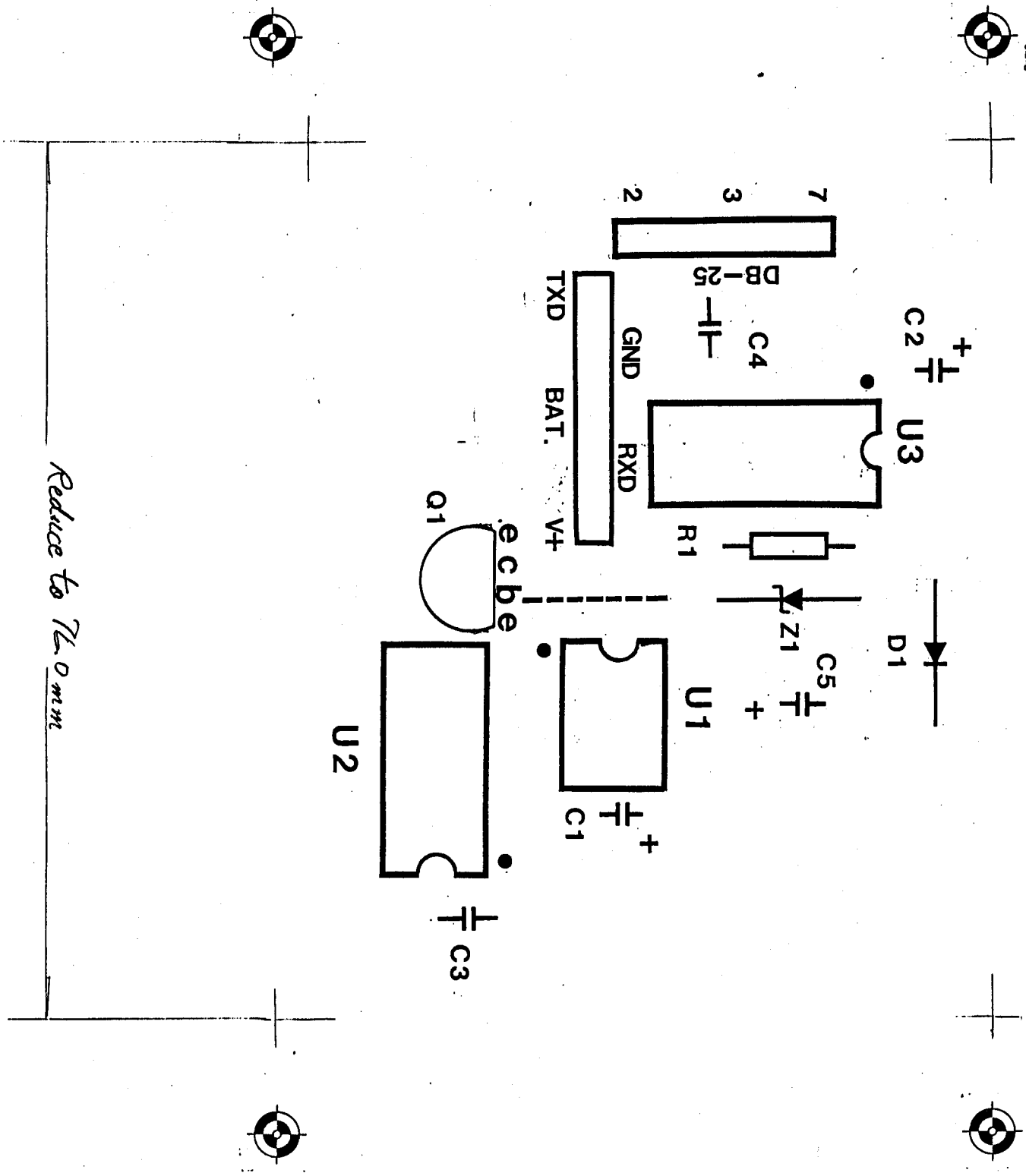
1. Purpose: To test the voltage conversion.
2. Testing procedure:
 - Toggle SW to +5V.
 - Note down meter 1 and 2 readings.
 - Toggle SW to GND.
 - Note down meter 1 and 2 readings
 - All readings should confirm to the following table.

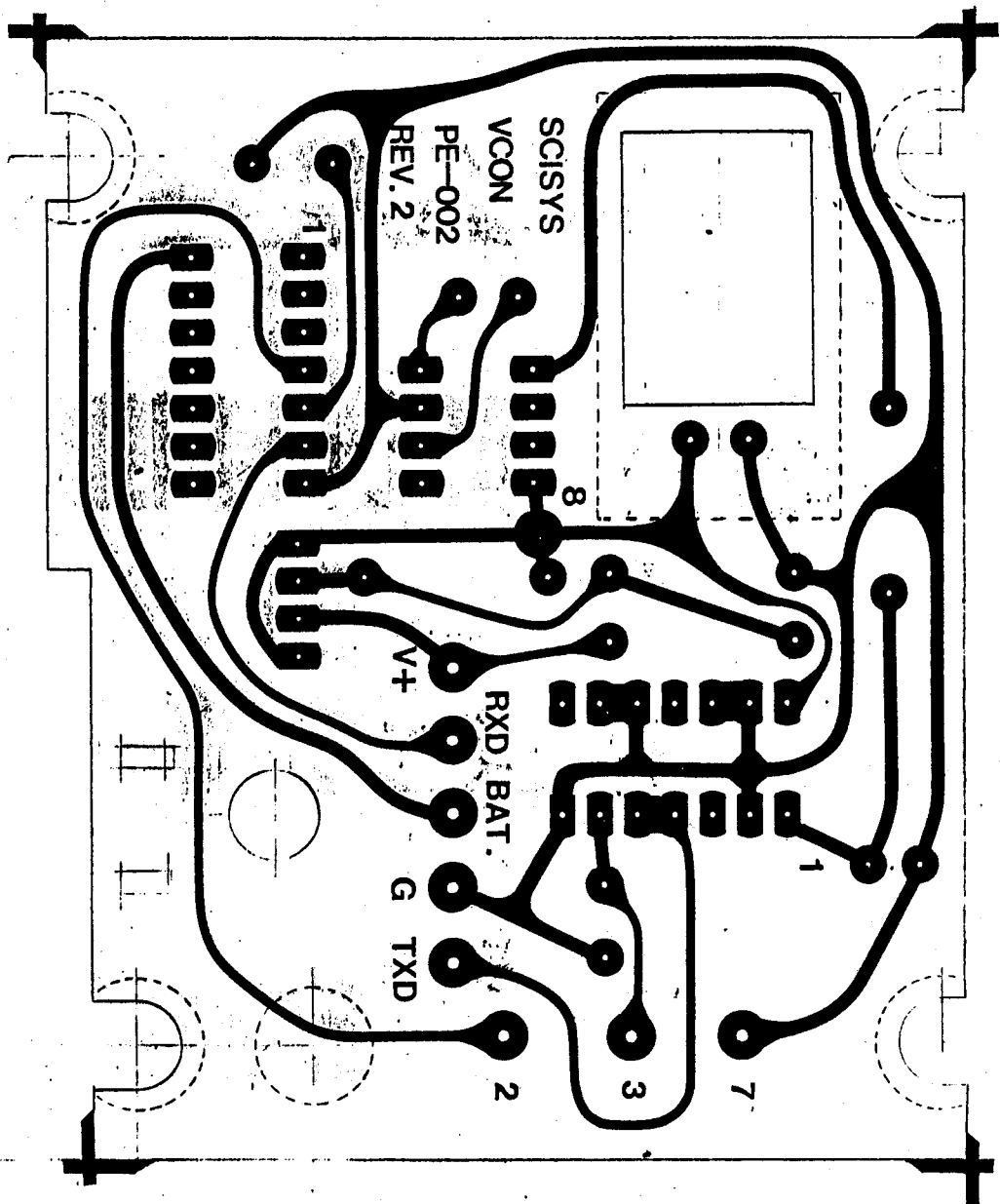
3. Readings:

| Switch | Reading | |
|--------|------------|--------------|
| | meter 1 | meter 2 |
| +5V | 4 to 5V. | -8 to -4.5V. |
| GND | 0 to 0.5V. | +5.5 to +9V. |

4. Connection (VCON-PE-013):



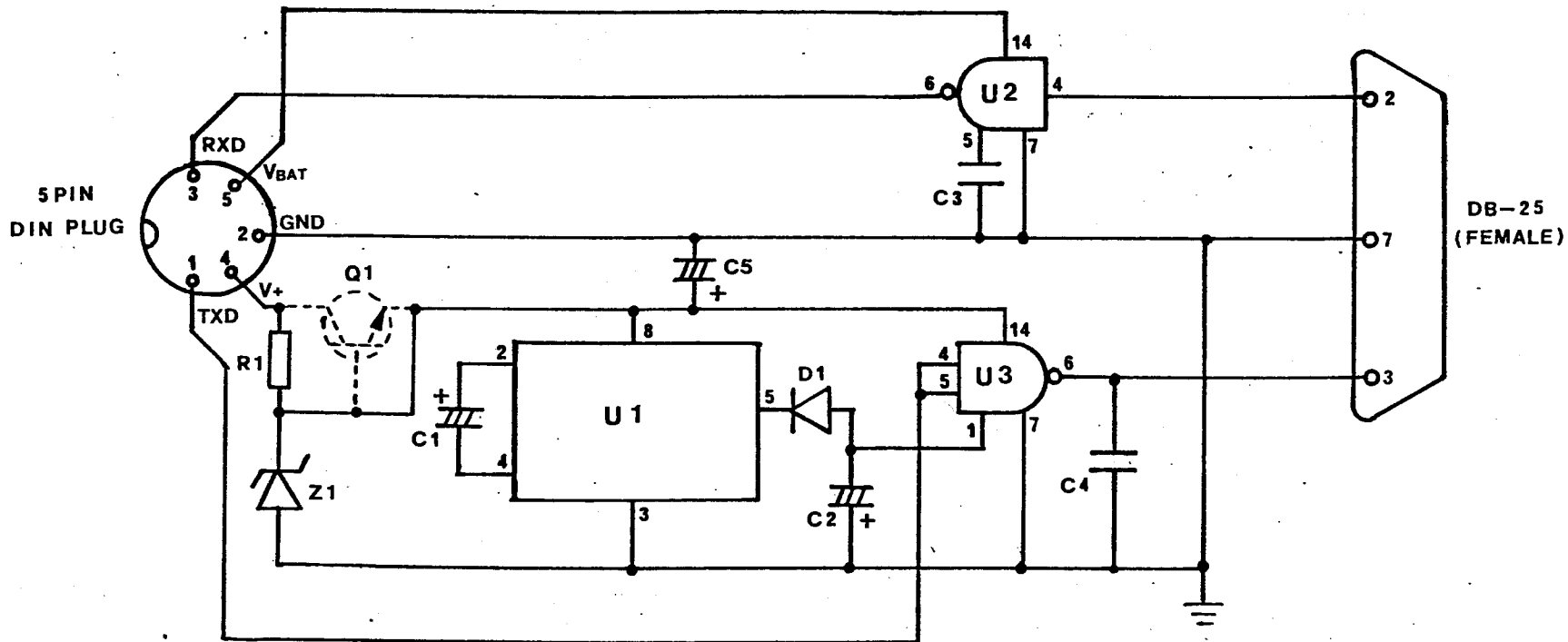




SCISYS
VCON
PE-002
REV. 2

V+
RXD
BAT.
G
TXD

1
2
3
7
8



Q1 — OPTIONAL

| | | |
|----------------------------------|-------------------------|-------------------------|
| SciSys-W Ltd. | | |
| TITLE: VCON SCHEMATIC DIAGRAM | | |
| DWG. NO. VCON-PE-004 | | REV. 1 |
| UNIT <i>H</i> | SCALE <i>H</i> | TOL <i>H</i> |
| MATERIAL <i>H</i> | DATE 4-8-86 | |
| FINISH <i>H</i> | DRAWN P.C. | |
| APPD. BY | ENG. <i>[Signature]</i> | Q.A. <i>[Signature]</i> |

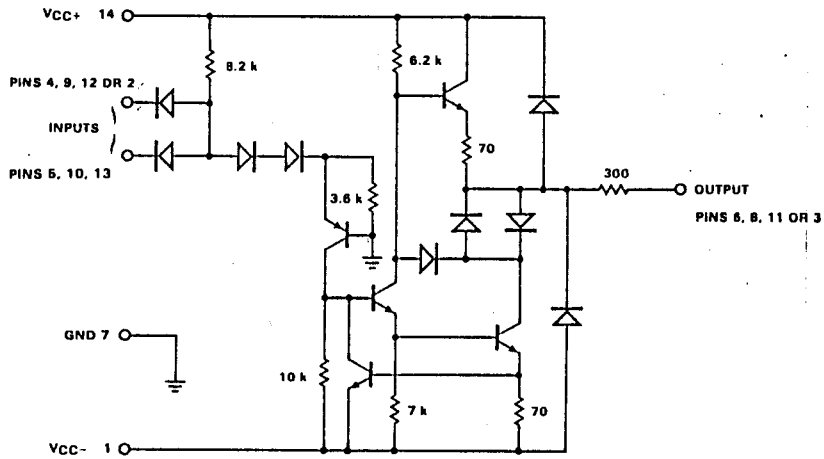
VOLTAGE CONVERTER (VCON) PARTLIST
 CREATED 07 JUL 86
 SCHEMATIC DWG : VCON-PE-004
 LOGIC PCB NO. : VCON-PE-002

REV. 1
 UPDATED 15 OCT 86
 REV. 1
 REV. 2

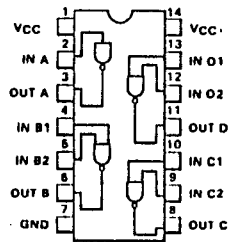
| ITEM DESCRIPTION | QTY. | REFERENCE |
|--|------|-----------|
| *** LOGIC BOARD ASSEMBLY *** | | |
| LOGIC PCB (S-SIDED 62mmx76mm) | 1 | |
| 1 I.C.: ICL7660 | 1 | U1 |
| 1 1489 | 1 | U2 |
| 1 1488 | 1 | U3 |
| ZENER DIODE, 10V 1/2W | 1 | Z1 |
| DIODE IN4148 | 1 | D1 |
| RESISTOR (1/2W, +/-5%, C-FILM): 47 | 1 | R1 |
| CAPACITOR: | | |
| 10uF/16V ELECT. | 2 | C1,C2 |
| 100uF/16V ELECT. | 1 | C5 |
| 0.001uF CER. | 1 | C3 |
| 0.0001uF CER. | 1 | C4 |
| *** ELECTRO-MECHANICAL ACCESSORIES *** | | |
| 1 DB25 CONNECTOR (FEMALE) | 1 | |
| 1 DIN PLUG (5 PIN) | 1 | |
| 5-CORE CABLE WITH SHIELDING (L=30cm) | 1 | |
| BARE JUMPER WIRE L=12.5mm | 1 | |
| STRANDED WIRE, AWG 28, 4mm STRIPPED & TINNED AT BOTH ENDS L=30mm | 3 | |
| 1 NAME PLATE (AL) | 1 | |
| 1 COVERING SHEET (53.6x11.3mm, PVC) | 1 | |
| CABLE TIE (4") | 1 | |
| 1 RATING PLATE | 1 | |
| SCREWS (SELF-TAP, CROSS RECESS, BINDING HEAD, TYPE BT): M2.6x10 (FOR CAB.) | 4 | |
| *** PLASTIC *** | | |
| 1 PLASTIC SET: | 1 | |
| TOP CABINET | 1 | |
| BOTTOM CABINET | 1 | |
| *** PACKAGING *** | | |
| SERIAL NO. LABEL | 1 | |
| BUBBLE BAG (200x110mm) | 1 | |
| 1 POLYBAG (9"x14") | 1 | |
| 1 INSTRUCTION MANUAL | 1 | |
| SHIPPING CARTON | 1/20 | |

μA 1488

CIRCUIT SCHEMATIC (1/4 OF CIRCUIT SHOWN)

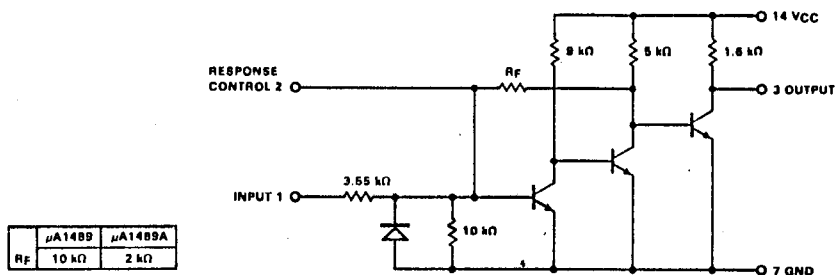


CONNECTION DIAGRAM
14-PIN DIP
(TOP VIEW)
PACKAGE OUTLINE 6A 9A
PACKAGE CODE D P

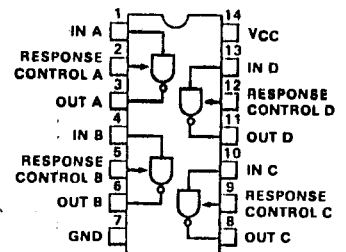


μA1489

CIRCUIT SCHEMATIC (1/4 OF CIRCUIT SHOWN)

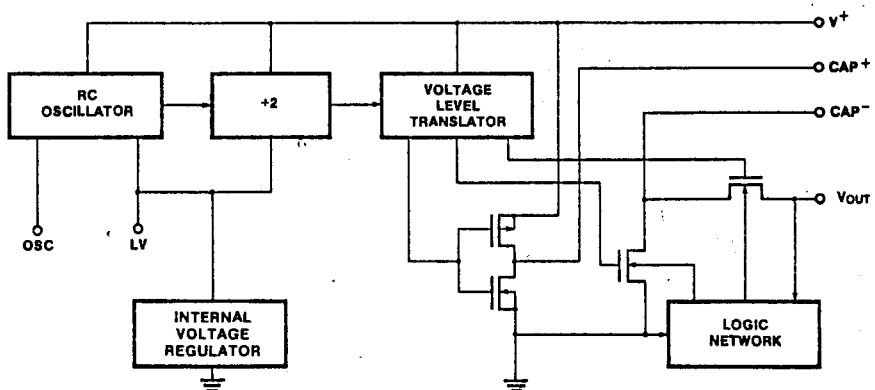


CONNECTION DIAGRAM
14-PIN DIP
(TOP VIEW)
PACKAGE OUTLINES 6A 9A
PACKAGE CODES D P

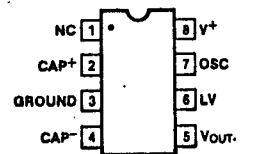


ICL 7660

BLOCK DIAGRAM



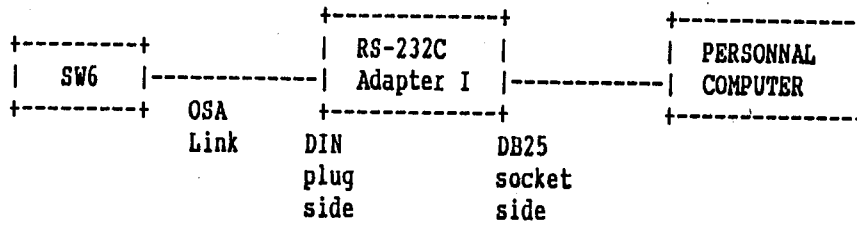
PIN CONFIGURATIONS



(outline dwg PA)

VEON
Functional test procedure

1. Connect a Leonardo to a personal computer through the RS-232C adapter I as follows:



2. Open the Link with a terminal program as mentioned in Appendix A of the "The Link: Leonardo's OSA connection to computers and printers manual."
3. Type "Position" from your keyboard, you should see the initial board position on the screen if the adapter works properly.