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**GLENSOUND
ELECTRONICS LTD**

GSGC9-ISDN-SOLO

‘BRICK’

PRODUCT DETAILS

GLENSOUND ELECTRONICS LTD

GSGC9-ISDN-SOLO 'BRICK'

HANDBOOK CONTENTS

DATE 13/07/00

WP06-194

ISSUE No. 8

	DESCRIPTION	DRAWING No.
1.	Approvals	AP74-01
2.	Front & Rear Views	A4-13562
3.	GSGC9 Block Diagram	A3-13258
4.	GSGC9 Audio Paths and Timing	A2-13552
5.	GSGC9 DTMF Detectors Circuit Diagram	A3-13553
6.	GSGC9 Operating Instructions	AP08-01
7.	GSGC9 Setting Up	AP74-02 (3 Pages)
8.	GSM09 PSU Circuit Diagram	A4-13470

APPROVALS

C E

This product conforms to the requirements of EMC DIRECTIVE 89/336/EEC

Emissions Standards	EN 50081-1
Immunity Standards	EN 50082-1

BABT APPROVAL

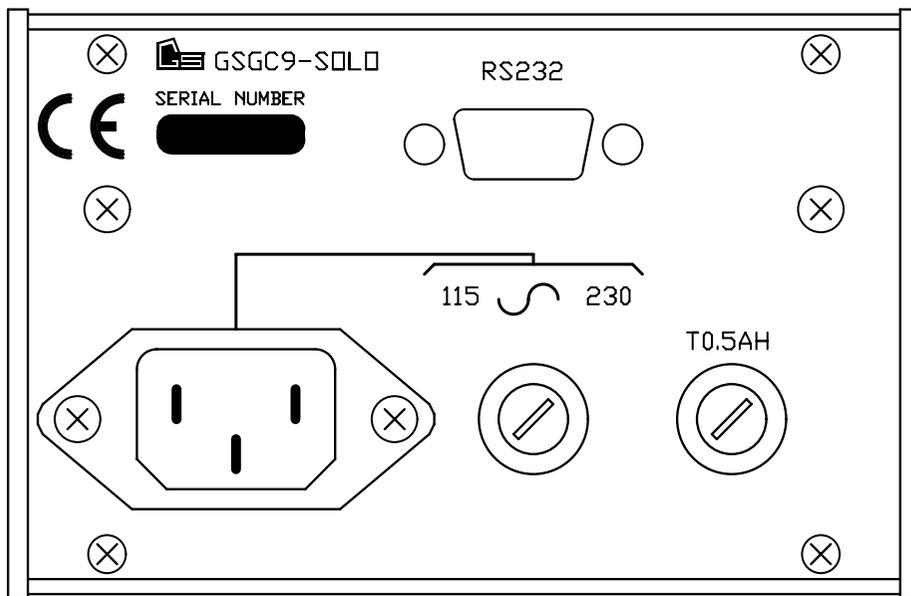
This device incorporates a Teltrend 'MIDAS' ISDN Basic Rate Module which has been approved by the British Approval Board for Telecommunication (BABT) for connection to the Integrated Services Digital Network (ISDN). The following administrative approval number has been given to this product:

AA604381

INTERIM CTR APPROVAL

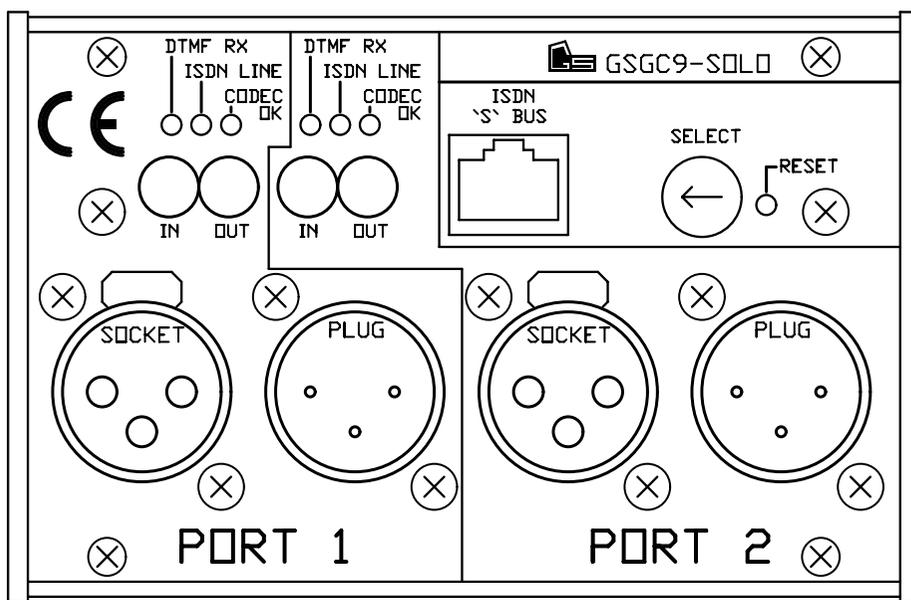
The Teltrend 'MIDAS' Basic Rate Module has interim CTR approval so the Glensound GSGC9 modules are approved for use in any country in the EEC

OVERALL
FRONT TO BACK
DIMENSION
= 8.1 INCHES



REAR

3.0 INCHES



FRONT

4.6 INCHES



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ISSUE	DATE
1	23/02/98

GS-ISDN-SOLO
'BRICK'
FRONT & REAR
VIEWS

DRAWING NUMBER

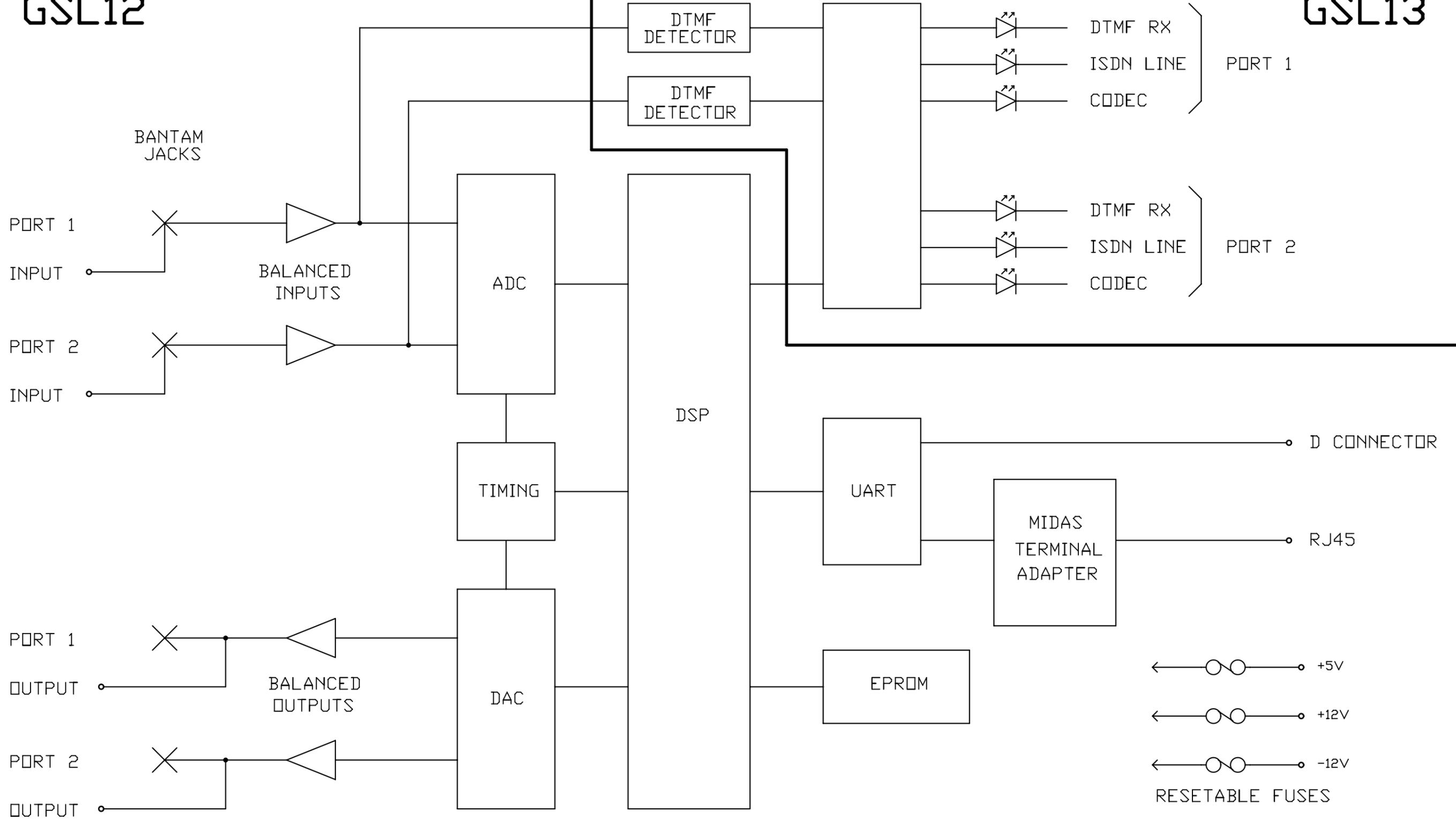
A4-13562

DRAWN BY

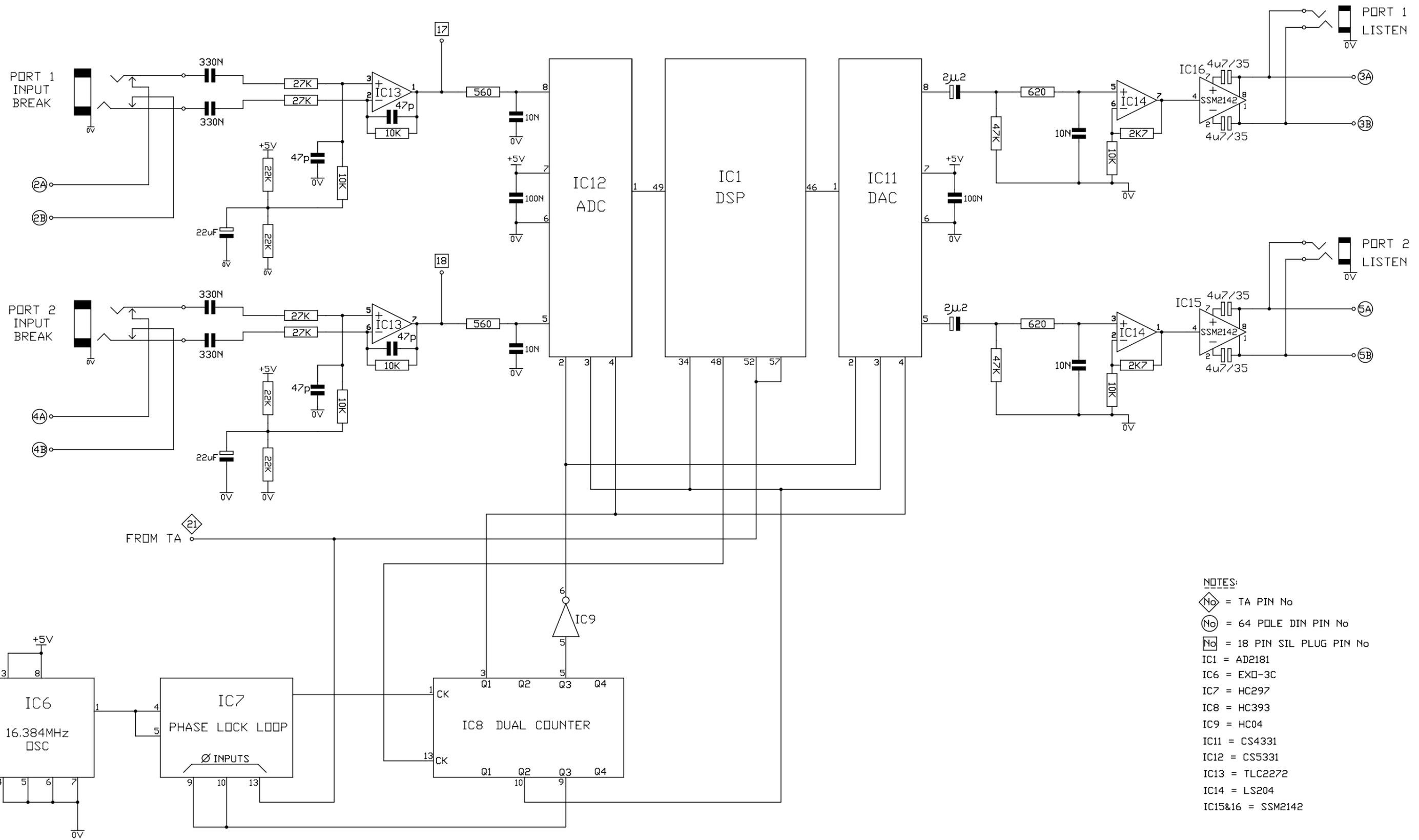
ORIGINALLY DRAWN USING EASYTRAX

GSL12

GSL13

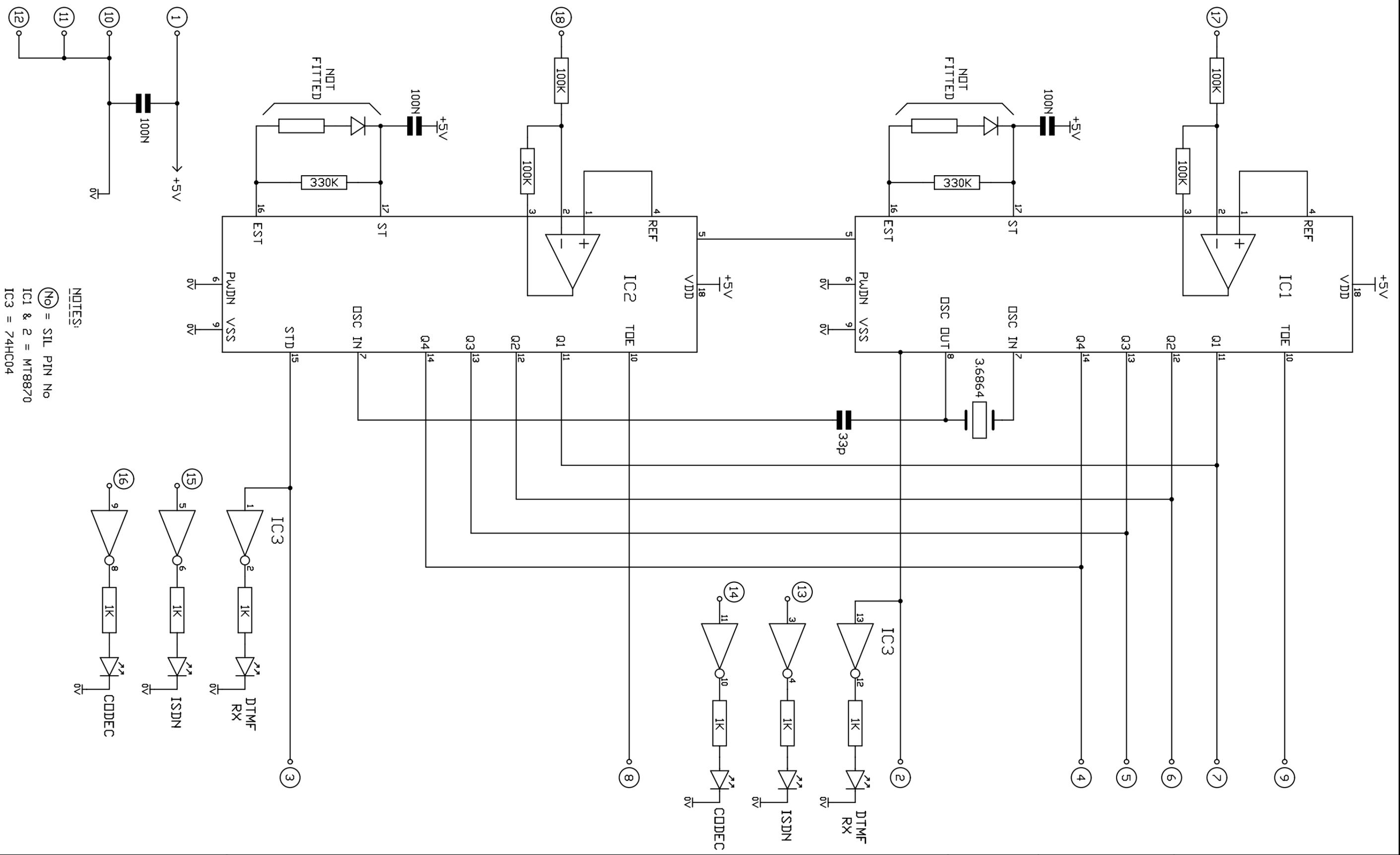


ISSUE	DATE	DRAWING NUMBER	
1	23/04/97	A3-13258	
2	19/02/98		
		DRAWN BY	AMD
ORIGINALLY DRAWN USING EASYTRAX			



- NOTES:
- ⬡No = TA PIN No
 - ⊙No = 64 POLE DIN PIN No
 - ▭No = 18 PIN SIL PLUG PIN No
 - IC1 = AD2181
 - IC6 = EXD-3C
 - IC7 = HC297
 - IC8 = HC393
 - IC9 = HC04
 - IC11 = CS4331
 - IC12 = CS5331
 - IC13 = TLC2272
 - IC14 = LS204
 - IC15&16 = SSM2142

ISSUE	DATE	DRAWING NUMBER
1	18/02/98	A2-13552
2	17/06/98	
DRAWN BY		AMD
ORIGINALLY DRAWN USING EASYTRAX		



NOTES:
 (No) = SIL PIN No
 IC1 & 2 = MT8870
 IC3 = 74HC04

ISSUE	DATE	DRAWING NUMBER	
1	20/02/98	A3-13553	
		DRAWN BY	AMD
		ORIGINALLY DRAWN USING EASYTRAX	

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OPERATING INSTRUCTIONS

June 11th 1998
File AP08-01
Issue 4

GSGC9 ISDN UNIT

- GENERAL** This equipment is controlled by using DTMF codes on the audio input.
- INSERT DTMF** To operate the system plug a DTMF generator (the Glensound GSGC10 is ideal) into the input jack of the GSGC9 module. The DTMF can be injected anywhere on the input circuit, but for reliable operation it is preferable to mute any programme audio before using DTMF. The input jack on the GSGC9 module is a break jack so it will automatically cut any audio.
- MONITORING** To listen to instructions from the GSGC9 module it is necessary to monitor the output circuit. This can be done by plugging a loudspeaker into the output jack of the GSGC9 module. This is a listen jack and does not stop the audio going to any rear panel connector.
- ENTER SETUP** To enter the setup menu it is necessary to hold the DTMF 'D' button for several seconds until the GSGC9 responds. The DTMF 'D' button is located on the rear panel of our GSGC10.
- CONFIG** Once in the setup menu it is only necessary to listen to the instructions. It is, at this stage, possible to directly enter a particular configuration if you know the correct number to insert.
- LEAVE SETUP** To leave the setup press the 'CLEAR' button.
- DIALLING** It is now only necessary to enter the number you require terminated with the 'DIAL' button. Hold the 'DIAL' button until the dialling is confirmed.
- DIALLING MEMORIES** First enter '#' followed by the two digit memory number. Then press and hold the 'DIAL' button until the dialling is confirmed
- HANG-UP** To hang up press the 'CLEAR' button. For safety, if a call is in progress, it is necessary to hold the 'CLEAR' button for several seconds.
- RE-DIAL** To redial the last number called just press the 'DIAL' button.
- QUERY** At any time if you press the '?' button the GSGC9 will inform you of its present condition. For safety, if a call is in progress, it is necessary to hold the '?' button for several seconds before the GSGC9 replies.

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SETTING UP THE GSGC9 ISDN MODULE

HARDWARE SETUP

There is a rotary 16 position switch on the front of the GSGC9. This selects different versions of terminal adapter software optimised for different countries. This switch is read as the GSGC9 module is powered up. If you turn this switch it is therefore essential to reset the GSGC9 either by turning it off and then back on or by pressing the small reset button on it's front panel.

The variations are as follows:-

Switch position		
0	EUROPE	ETSI Standard (the default)
1	EUROPE	ETSI Standard (identical to 0)
2	USA	AT&T
3	USA	National ISDN 1
4	USA	Northern Telecom
5	EIRE	
6	ISRAEL	
7	HOLLAND	
8	JAPAN	NTT
9	AUSTRALIA	
A	FRANCE	
B	NEW ZEALAND	

Please note that as time passes most countries are moving towards the ETSI standard.

SOFTWARE SETUP

Many parameters of the GSGC9 can be set up by the operator. It is important to realize that each GSGC9 module contains two independent ports and each one must be set up individually.

TO ENTER SETUP MODE

A DTMF dialer is required to programme the GSGC9. This can be our GSGC10 hand held dialer or our GSGC13 3U dialer. Our GSGC12 cannot be used because it does not generate the required DTMF code.

Connect the DTMF dialer to the input of the port you wish to setup. Press the set up button for several seconds. (The setup button on the GSGC10 is located on its rear panel.)

SETUP TREE

On entering setup a menu of commands is available. A recording informs you of the function of each button which are as follows:-

MAIN MENU

Press CLEAR	to Leave Setup
ZERO	for Current settings
ONE	to change User settings
TWO	to change ISDN settings
THREE	to change Memories
QUERY (?)	to Repeat

0) **CURRENT SETTINGS** A full list of the current settings

1) **USER SETTINGS**

Press CLEAR for Main Menu

Zero for Current User Settings

One to Change Answer Mode. Each Press toggles between:-

- 1) Auto Answer
- 1) Manual Answer

Two to Change Progress Reporting. Each Press toggles between:-

- 2) Full Call Progress
- 2) Query call Progress

Three to Change Ident.

Enter two digit Ident Number or press # to cancel.

Four to Change Announcement Volume

Five to change Dial Guard Time. Each Press toggles between:-

- 5) Dial Guard Time is Long
- 5) Dial Guard Time is Short

Press Query (?) to Repeat

Press CLEAR to return to Main Menu

2) ISDN SETTINGS

Press **CLEAR** for Main Menu

Zero For Current ISDN Settings

One To Change Incoming Call Types

- 1) Incoming Calls Barred
- 1) Incoming Telephone Calls Only
- 1) Incoming Broadcast Calls Only
- 1) Incoming Broadcast and Telephone Calls

Two To Change Outgoing Call Types

- 2) Outgoing Calls Barred
- 2) Outgoing Telephone Calls Only
- 2) Outgoing Broadcast Calls Only
- 2) Outgoing Broadcast and Telephones Calls

Three To Change Broadcast MSN

Enter Broadcast MSN if any, terminated with * or Press # to Cancel

Four To Change Telephone MSN

Enter Telephone MSN if any, terminated with * or Press # to Cancel

Five To Change B Channel Map

- 5) Calls on B2 Only
- 5) Calls on B1 or B2
- 5) Calls on B1 Only

Six To Change SPID

6) Enter SPID Terminated with * or Press # to Cancel

Press Query (?) to repeat

Press **CLEAR** to return to Main Menu

3) MEMORIES

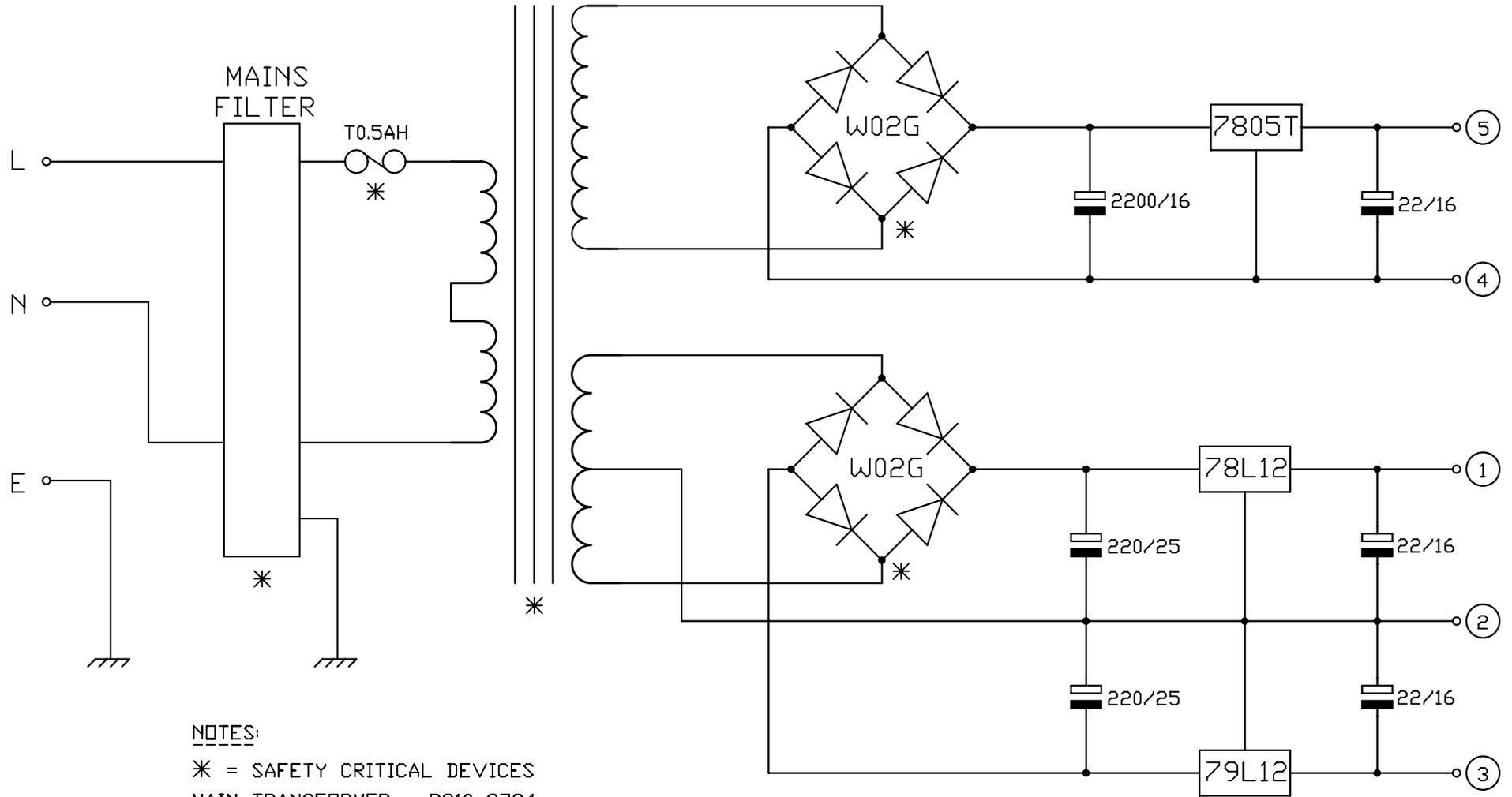
It is possible to store up to 99 frequently used numbers in each port of the GSGC9. These numbers are non volatile and are remembered even when the GSGC9 is switched off.

Each number must be 17 digits or less.

Enter the two digit number number of the required store. If you press '#' the operation will be cancelled and you will return to the Main Menu.

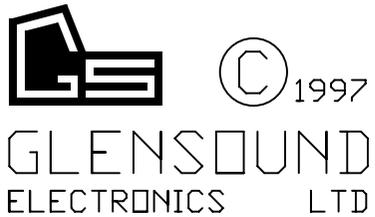
Enter New Number (up to 17 digits) terminated with '*' or press '#' to Cancel

RS210-8794



NOTES:

- * = SAFETY CRITICAL DEVICES
- MAIN TRANSFORMER = RS10-8794
- MAINS FILTER = SCHAFFNER FN9223-1-06



PSU FOR ISDN BRICK
 GSM09

ISSUE	DATE	DRAWING NUMBER
1	19/11/97	A4-13470
2	24/02/98	
3	03/03/98	
		ORIGINALLY DRAWN USING EASYTRAX