



# TR-5

## 4 MESSAGES DIGITAL RECORDER.

The TR-5 module will allow you to record and reproduce any electronic message, music or sound effect according to 4 different parts. You could independently access to any of them, leaving permanently stored in memory, even if stop to supply the module.

The play could be repetitive and include an electret microphone incorporated in the PCB.

It is supplied by 12 VDC or a 9 VDC battery or a FE-2 power supply.

It includes an ACG - Automatic Control of Gain

### TECHNICAL CHARACTERISTICS.

Voltage .....	From 9 to 12 V. D.C.
Maximum Power .....	100 mW.
Maximum Operating Consumption .....	35mA.
Quiescent Consumption .....	15 mA.
Output Impedance .....	8-16 Ohms
Automatic Control Of Gain .....	Yes.
Protection Against Output Polarisation .....	Yes.
Protection Against Polarity Inversions .....	Yes.

### OPERATING.

**POWER SUPPLY.** The TR-5 circuit had to be supplied by a power supply from 9 up to 12 V. D.C. or a 9 V. D.C. battery. We recommended you the FE-2 power supply which has been developed to perfectly answer to the circuit needs. Connect the positive of the power supply to the positive terminal indicated in the wiring map, then connect also the negative of the power supply to the negative terminal indicated in the circuit.

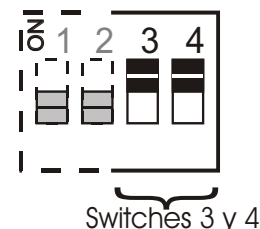
**Verify** that the assembly has been correctly done.

**TIME CONFIGURATION BY PART.** The TR-5 module could play or record 4 parts of different messages. With these parts or messages you could determine different operating times to configure the module as follow:

- 4 messages of 4 sec.
- 2 messages of 8 sec.
- 2 messages of 2 with two others messages of 6 sec.

The circuit is offered with the following mode, 4 message of 4 sec. To change this configuration you have to place switches N°3 & N°4 in the wished position. (See the drawing) Switches N°1 & N°2 do not influence in this position.

Switch 3	Switch 4	Message 1	Message 2	Message 3	Message 4
On	On	4 seg.	4 seg.	4 seg.	4 seg.
On	OFF	8 seg.	8 seg.	<del>X</del>	<del>X</del>
OFF	On	2 seg.	2 seg.	6 seg.	6 seg.
OFF	OFF	4 seg.	4 seg.	4 seg.	4 seg.



**RECORD (REC).** The TR-5, could independently record each message as well as their adjusted time.

The module offers the possibility to activate or deactivate the record thanks to a switch (switch N°1).

To record and only during this operation you have to place the switch N°1 in position ON. When you have finished, place the switch in position OFF.

To do this, you have to connect a push button to the terminal "Rec" (see General wiring map) and close it. Then, select the message (among 4) that you wish to record and close contacts of the corresponding push button. The circuit will start to record up to the determined time for the message. You could not record less than the determined time neither an intermediary stop. During the recording time, the operating led will light on. If you wish to record another message you have to open and close again the REC push button and



## VOICE SYNTHESIS

Ref. FULL9811\_Ang.

### OPERATING.

proceed as previously.

**Do not forget.** When you finish to record message(s), you have to place the switch N°1 in position OFF.

**REPRODUCTION. (PLAY).** Install a loudspeaker. Connect push buttons to the terminal of each message. Use shielded cable. Verify that the switch N°1 is in position OFF.

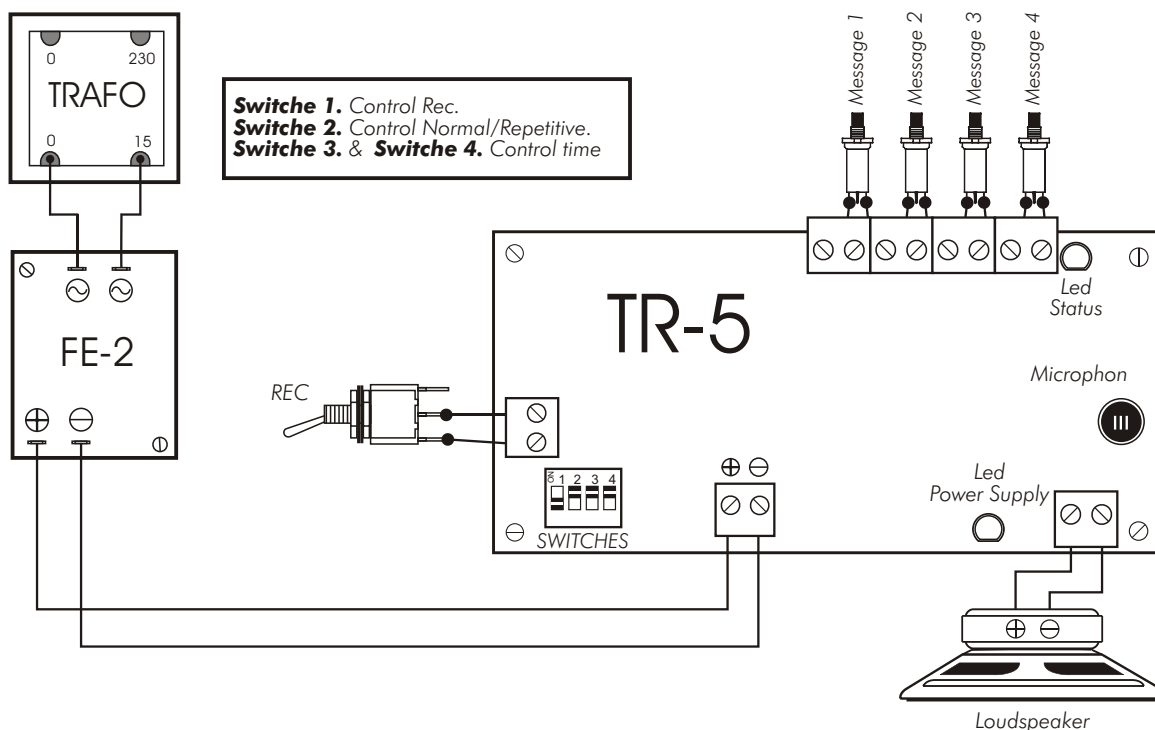
To use the play function, close contacts of the push button corresponding to the message that you wish to listen. Then, the module will reproduce the message up to the end of the determinate time.

**The module does not allow to activate any other message if the previous message is not finished (determinate time); you have to wait the end of this message.**

**REPETITIVE REPRODUCTION.** The TR-5 module offer two reproduction modes, normal or repetitive. To select the wished mode, place the switch N°2 according to your need. To use the normal mode, you have to place the **switch N°2 in position OFF** and to use the repetitive mode, you have to place the **switch N°2 in position ON**. If you select the normal mode and you activate any of the 4 messages, the circuit will stop to reproduce at the end of the determinate time for the message, waiting for an other pressure.

In the opposite case, if you select the repetitive mode, the module at the end of the determinate time and

### GENERAL WIRING MAP.



### TECHNICAL SUPPORT AND INFORMATION.

For any questions or more information:

**By Fax.** (24h.) +34.3. 432.29.95

**By Mail:** C/ Quetzal, 17-21, Entlo. 2º (08014) BARCELONA - SPAIN.

**By E-Mail:** [cebek@sakma.es](mailto:cebek@sakma.es)

**Keep you invoice.** For any repairing could you send this with module. Else, the module will lost the warranty.

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YEARS**