

## Gas Test Box

### Model No. SR#3

# INSTRUCTION MANUAL

This simple and convenient test box enables the characteristics of the Figaro TGS sensors type #812, #813 and #109 to be evaluated. It is designed for use with Figaro Test Unit SR#1.

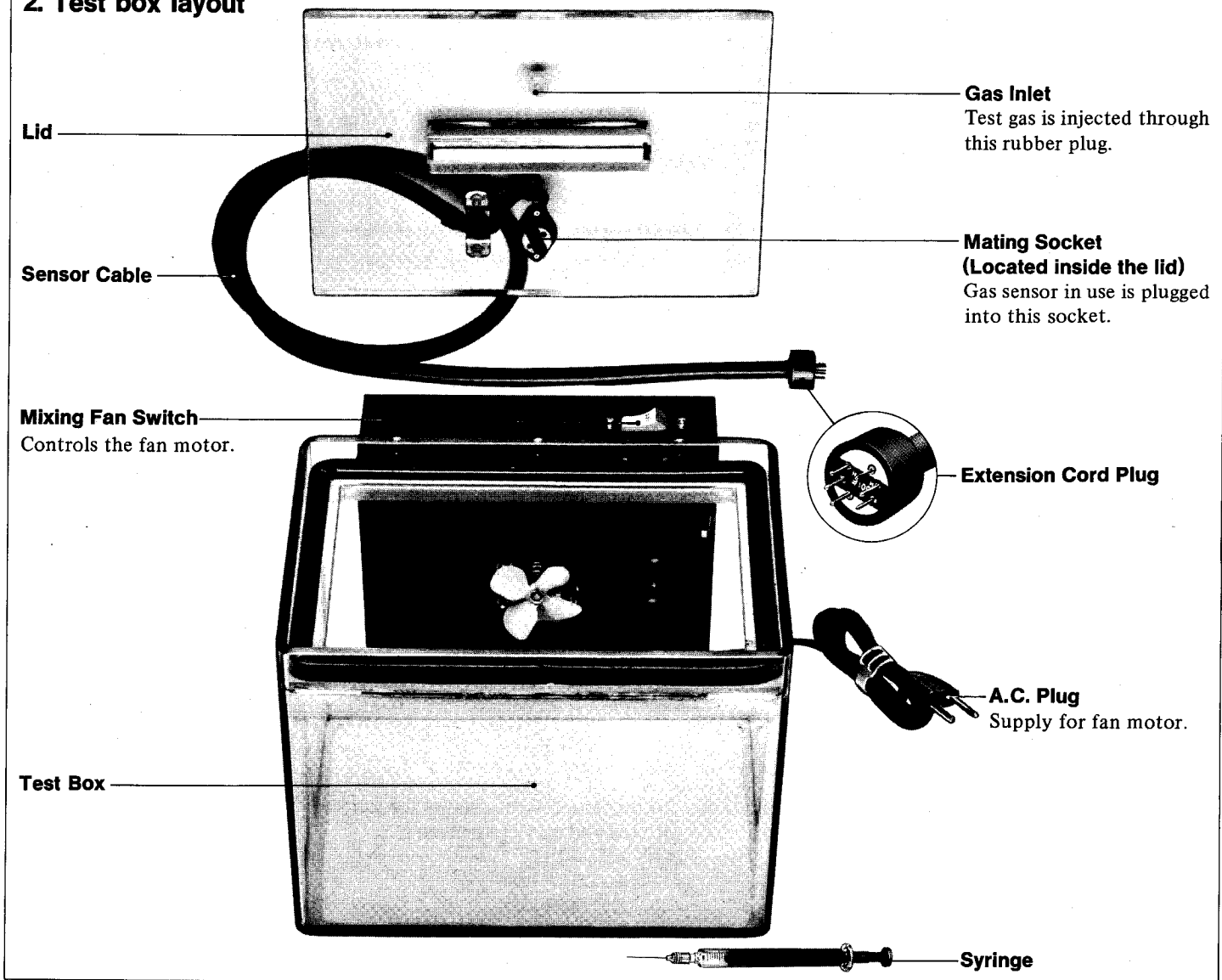
## 1. Specifications

- \* Power supply: The unit is supplied adjusted for use with the voltage supply marked X.  
100V A.C. 50/60Hz  
117V A.C. 50/60Hz  
220V A.C. 50/60Hz
- \* Power Consumption: approx. 10W
- \* Outer Dimension: 235mm x 180mm x 210mm
- \* Effective Volume: 5,400cc
- \* Gas Concentration vs Gas Volume injected:

Gas Concentration (ppm)	Volume of Pure Gas (cc)
50	0.27
100	0.54
200	1.08
400	2.16
600	3.24
800	4.32
1,000	5.40

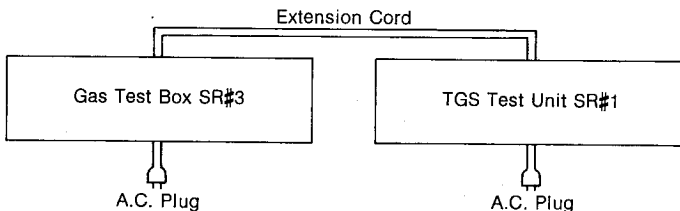
- \* A syringe: A syringe (2cc) for injecting test gas is attached.

## 2. Test box layout



## 3. Directions for use

- ① Place the open test box in a clean atmosphere e.g. beside an open window, and run the mixing fan for 2 ~ 3 minutes to ensure all contaminants are removed from box.
- ② With clean air in the box, connect test box SR#3 and test unit SR#1 as shown in sketch below:
- ③ Plug sensor into socket in box lid. With sensors type #812 and #813 no special alignment between sensor and socket pins is necessary, but when using sensor type #109, sensor and socket pins marked H H must correspond.
- ④ Close box by replacing lid.
- ⑤ Connect power and check circuit voltage using voltmeter.
- ⑥ Fill the syringe to the predetermined gas volume from a cylinder of test gas. (The gas volume is determined by reference to 1. Specifications.)
- ⑦ Inject the test gas into the Test Box through the Gas Inlet.
- ⑧ Switch on the mixing fan for 30 seconds.
- ⑨ Wait 30 seconds and note output reading.



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