BEINAT
GAS SOLUTIONS

Belonging to ANIE CONFINDUSTRIA

TS1008-V1
Self-certifying Tester for GAS Detectors and Sensors

FUNCTION TESTS AND CHECKS

- Check and view the type of probe, or equipment
- Check and view the serial number
- Check and view the Construction date
- Check and view the remaining days at the end of the cycle
- Check and view how many times it has been turned on
- Check and view how many times it has detectedan Alarm
- Check and view how many corrections have been made
- Check and display the operating range % of LEL
- Check and display the operation of the device
- Issues the receipt proving the operation

Customer, version

Certify the test by printing the report

Extends the RC insurance

User Guide e maintenance

Thank you for choosing the digital tester of **BEINAT S.r.l.** mod. **TS1008**
This manual has been designed to help you achieve maximum functionality and automatic product efficiency.
Read these instructions carefully before beginning use and always keep it handy when using the instrument.
The illustrations and text on the screens shown in this manual may differ from what is actually displayed.

Main features

From the experience since 40 years and the requirements of the rules of the test, **BEINAT Srl** has built a new tool Tester **TS1008** for its own products.
Mainly this new device is suitable to test all conventional probes to detect **explosive and toxic gas** manufactured by **BEINAT Srl**
This device allows to read all of the data and the configuration of work that are in the memory of the probes, also, having supplied by the **serial** transmission, it prints the ticket that confirms the testing data, **certifying your own work.**

By the Tester **TS1008**, you can read all of the events that occurred in the probe, such as:

1) The type of probe
2) The serial number of the probe.
3) The status of current work, **WAITING** (warm up) - **READING DATA** - **FAULT** - **ALARM.**
4) How many times the voltage has been On/Off.
5) How many times it issued an alarm.
6) The status of the current calibration.
7) How many times the correction has been made.
8) How many operating days remain before the substitution of the sensing element.

Important warnings

To use your **TS1008** digital tester for a long time, use it and store it with the following precautions in mind.
MAKE SURE of integrity after removing it from the box.
Any use other than that for which the detector was designed is to be considered improper, so the **BEINAT S.r.l.** declines all responsibility for any damage caused to people, animals or things.

For your safety, in the event of a malfunction, switch off the appliance immediately.
If you notice smoke or an acrid or unusual smell coming from the appliance, switch off the instrument immediately and send the appliance to the nearest Service center.
Use the appropriate cables supplied.
In order to preserve the conformity of the product with the regulations, for the connection to the input and / or output terminals of the detector, use only cables supplied for this purpose or sold separately from BEINAT S.r.l.
Avoid contact with liquid crystals.
If the display breaks, be careful not to hurt yourself with the glass fragments and avoid the liquid crystals coming into contact with the skin, eyes or mouth.
Do not wet it.
The detector is not waterproof if it is submerged in water or exposed to high humidity levels and can cause serious damage.
Do not let it fall.
Strong blows against rigid surfaces and large vibrations can damage the appliance.
Avoid strong magnetic fields.
This detector should not be used or stored in the presence of radiation or strong magnetic fields. Static electricity or magnetic fields produced by equipment such as radio transmitters can interfere with detection.
Cleaning
Never clean the appliance with chemicals. If necessary, wash with a damp cloth.

Technical specifications

Powered by Lithium Polymer battery ..... 3.7 V.cc built-in
Consumption during other detection.....3 mA
Consumption during printing.....4 mA
Battery autonomy according to functions .....380 hour approx
Battery charging and consumption control.....On Display
Alphanumeric display .....Alpha numeric
Storing Events ..... one until the instrument is switched off
Compatible sensors ..... SGM595, SGM533, SG895, SG800, CO100r, HCF100, serie SGF, CXM200/Q
Auto power off..... after 1 hour of stand-by
Operating temperature ..... -10° C ÷ + 45° C
Working humidity not condensed .....from 0 to 90%
Printing ..... With IR port
Electromagnetic Compatibility ..... CE
Dimensions and weight ..... 65 * 135 *32mm circa 180gr

Attention!
All measurements taken with **batteries in need of recharge can give false measurements.**

Battery replacement

Indicator of the charge and / or remaining level of the battery

Technical data of non-rechargeable AAA Alkaline batteries
Nominal voltage of the **1.5 VDCV** battery pack. caduna
Operating time 380 hours with charged batteries
N.B. Do not replace the batteries in the ATEX area

Replacing the discharged batteries
Proceed as follows when the low battery icon is displayed.

1) Turn off the instrument
2) Unscrew the 4 screws located at the back of the instrument.
3) Raise the cohesion
4) Remove the batteries
5) Insert the new batteries, positioning them in the correct direction (+ -)
6) Replace the cover and tighten the 4 screws
7) Turn on the instrument and continue in your work.

Use
Batteries must never be exposed to temperatures above + 40 ° C
To ensure optimal durability, use them at room temperature.
If used at both low and high temperatures the duration capacity may decrease.

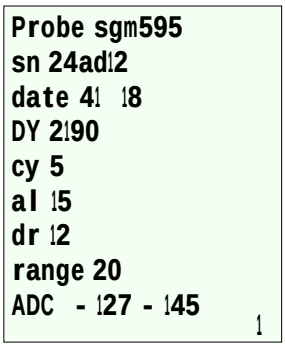
Components and commands

Function of the Buttons
1) Power on and off button.
To turn the TESTER on or off, keep the button pressed for 5 seconds.
2) Group of navigation buttons of the TESTER.
a) "DOWN" button by pressing this button the pages are scrolled downwards. (indication 6)
b) "ENTER" button Pressing the button on page 1 you access:
1) Model verification of the interrogated device
2) Matriculation number
3) Week and year of construction
4) Estimated residual working days
5) Ignition cycles
6) Detected alarms
7) Corrections made
The **"ENTER"** button *on page 3* **"PRINT"**, serves to confirm the start of printing
The "**ENTER"** button, *on page 4* **"TAR 175"**, is used to modify the TAR according to the needs, pressing it will note the blinking of the writing, and pressing **"UP"** or **"DOWN"** increases or decreases the data.
The **"ENTER"** button *on page 5* **"NEW"** is used to reset the device to the factory data by resetting the counters
The **"ENTER"** button *on page 6* **"SAVE"** is used to save permanently edited data
c) "UP" button by pressing this button the pages are scrolled upwards. (see indication 6)
Checking the status of the battery.
Pressing the **"UP"** and **"DOWN"** buttons at the same time, the message BAT appears on the display followed by three segments; Segments full, charged battery, empty segments empty battery.

DISPLAY
The display used on the **TESTER** is of the alphanumeric type and is used to display the following information:
3) "LEL" unit of measurement for explosive gas; **"ppm"** for the toxic gas, the exchange takes place automatically according to the type of probe.
4) Percentage reading, indicates the quantity of gas lost in the environment.
N.B. The word **"FAULT"** replaces the reading of the percentage of gas in case of probe failure.
5) Sign of **"%"** lights up only when explosive gas is read.
6) Reading page number; The tester contains 1 to 7 pages, depending on the model.
7) "ASTERISK with a line" icon lights up when the tester is not connected to the probe in question.
8) Clock icon, indicates that the probe in question is in the **"WARMUP"** wait state.
9) "IR" transmission element given to the tamper.
10) "USB" port **TS1008** connection with equipment to be examined

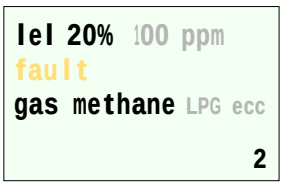
Description of the screens

PAGE 1 to scroll the page press "ENTER"



Displays: **"Probe"** The type of probe or device
Displays: **"SN"** The serial number
Displays: **"DATE"** The week and year of manufacture
Displays: **"Dy"** the remaining days at the end of the operating cycle.
Displays: **"Cy"** How many times the probe has been turned on.
Displays: **"AL"** How many times is gone into alarm.
Displays: **"DR"** How many corrections have been done
Displays: **"RANGE"** The operating range if at 20 or at 100% of LEL
Displays: **"ADC"** A scrolling to the normalized value, coming out of the gas cap, modifying these data compromises the functioning and is reserved for authorized technicians.

To see the next page, press **"DOWN"**



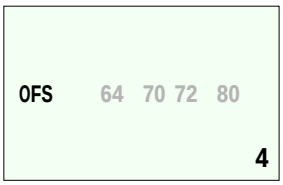
PAGE 2 to scroll the page press "ENTER"

Displays the percentage of gas dispersed in the environment, can be expressed in: **% of LEL** or in **ppm**. In case of failure appears only **"FAULT"**
Displays the type of gas for which the probe has been calibrated

To see the next page, press **"DOWN"**

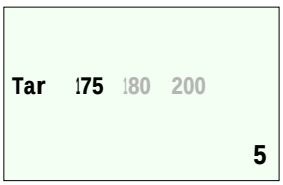
PAGE 3

PRINT to print, point the **IR** transmitter toward the printer and press **"ENTER"**



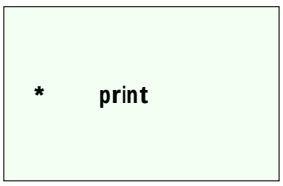
PAGE 4

Modification: **"OFFSET"** changes the deviation of the value of zero defined during calibration.



PAGE 5

Modification: **"TAR"** multiplicative factor depending on the type of gas.



Every time you disconnect the tester from the probe appears **"PRINT"**.
The **TS1008** has loaded in memory the data stored in the probe and asked to print them.
If you do not want to print, turn off the tester or connect it to another probe.

Printer recommended

BEINAT S.r.l. recommend a printer with infrared receiving 8 bits (1 start, error 4) Infrared 940nm, 33 kHz

Sample Print

BEINAT

Mod. SGM595
S/N: 15115d
Prod. Week : 9/2014
Remaining days: 2190
LEL: 10%
Power on cycles: 1
Alarm count; 0
Drift count: 0

date.....
sign.....

Problems and solutions

If the device does not turn on..
Check that the battery is charged, if it is not, recharge it

If the device does not detect
Check that the cables are well plugged in and make contact.

If the device does not print
Check that the instrument is in line with the printer.
Check that the printer is turned on and is in line with the instrument.

In the event other problems arise, directly contact a specialist and/or authorised **technician** or your **BEINAT** S.r.l. **dealer**.

Testing Sensors

According to the EN 50194 / EN 50291 Standards, and compliant with the EN 60079-29-1 - EN60079-29-2 Standard, in every type of system performed for the control and prevention of gas leakage it is expected that after installation performed functional checks, in the times and following ways:

1) Every six months, from the installation the user or whoever will have to perform a check on the effective operation of the detection equipment.

2) At the end of each year, by means of a specialized technician, the operating test must be performed by emitting gas from a pre-calibrated cylinder within the percentages described for each type of equipment.

Ordinary and extraordinary maintenance and putting out of service at the end of the operating period guaranteed by the manufacturer must be carried out by authorized and / or specialized personnel

Accessories To perform the test and to obtain a self-certification it is necessary to use:

1 **TS1008** tester
1 **STM001** printer
1 Pre-calibrated cylinder

After verifying that the installation to be tested has been in operation for at least 24 hours or more.
Screw the dispensing valve onto the cylinder;
Proceed with the emission of gas by placing the diffuser near the sensor of the probe with fast and constant closing and opening maneuvers

INSURANCE. This device is insured by the SOCIETÀ REALE MUTUA for the PRODUCT'S GENERAL LIABILITY up to a maximum of 1,500,000.00 EURO against damages caused by the device in case of failures in functioning.

WARRANTY. The warranty term is 3 years from manufacturing date, in agreement with the following conditions. The components acknowledged as faulty will be replaced free of charge, excluding the replacement of plastic or aluminium cases, bags, packing, batteries and technical reports.
The device must arrive free of shipment charges to **BEINAT S.r.l.**
Defects caused by unauthorized personnel tampering, incorrect installation and negligence resulting from phenomena outside normal functioning shall be excluded from the warranty.
BEINAT S.r.l. is not liable for possible damage, direct or indirect, to people, animals, or things; from product faults and from its enforced suspension of use.

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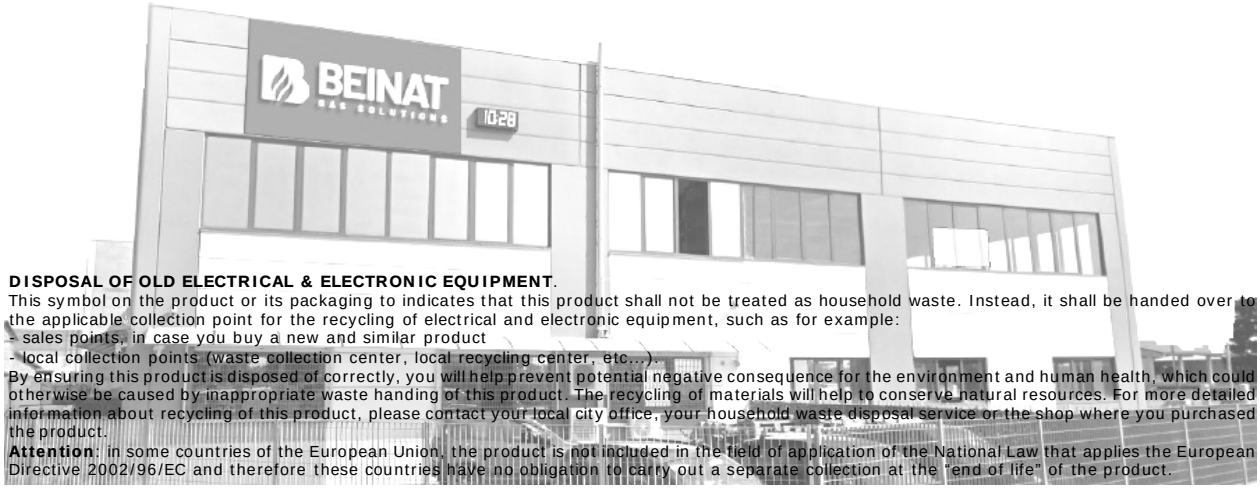

DISPOSAL OF OLD ELECTRICAL & ELECTRONIC EQUIPMENT.
This symbol on the product or its packaging to indicates that this product shall not be treated as household waste. Instead, it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment, such as for example:
- sales points, in case you buy a new and similar product
- local collection points (waste collection center, local recycling center, etc...).

By ensuring this product is disposed of correctly, you will help prevent potential negative consequence for the environment and human health, which could otherwise be caused by inappropriate waste handing of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.
Attention: in some countries of the European Union, the product is not included in the field of application of the National Law that applies the European Directive 2002/96/EC and therefore these countries have no obligation to carry out a separate collection at the "end of life" of the product.

CE RoHS Compliant IP40 Made in Italy

Customer, version

Tester TS1008 *Lo styling è della b & b design*

Stamp of Dealer

Purchase date : . . . . . .

Serial Number : . . . . . .

In agreement with its continuous development policy, we reserve the right to modify its products without notice.

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