

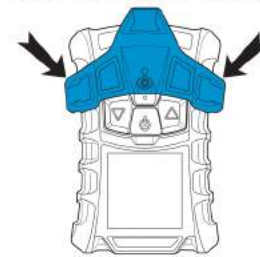
each day's use on a known concentration of methane equivalent to 25 - 50% of full scale concentration. Accuracy must be within 0 to +20% of actual. Correct accuracy by performing the calibration procedure within this manual.

To **perform a Bump Test**, from the normal measure screen press the **Down** button to display "BUMP TEST?". Verify the gas concentrations displayed match the Calibration Check Gas Cylinder. If they do not, adjust the values through the Calibration Setup menu.

Attach the calibration cap to the device.

Insert tab on calibration cap into slot on device.

Press calibration cap as shown



until it seats onto device. Press both side tabs down onto device until they snap in. Ensure that the calibration cap is properly seated. Connect one end of the tubing to the calibration cap. Connect other end of tubing to the cylinder regulator [supplied in the calibration kit].

Press the ON/OFF button to start the bump test then open the valve on the regulator. The hour-glass will flash and the sensors will respond to the gas.

After the Bump Test completes, the device momentarily displays "BUMP PASS" or "BUMP ERROR" along with the label of any sensor that failed before returning to Measure mode. If the device fails the Bump Test, return unit to HSS Hire.

The "tick" symbol will be displayed in the Measure mode for 24 hours after a successful Bump Test.



UK SETTINGS

> COMB/EX - LOW	10
> COMB/EX - HIGH	20
> O2 - LOW	19.5
> O2 - HIGH	23.0
> CO - LOW	20
> CO - HIGH	100
> CO STEL	100
> CO TWA	20
> H2S - LOW	5
> H2S - HIGH	10
> H2S - STEL	10
> H2S - TWA	5
SO2 & NO2 sensors:	
NO ₂	(0.5 ppm LTEL & 1 ppm STEL)
SO ₂	(0.5 ppm LTEL & 1 ppm STEL)

TROUBLESHOOTING

When "ERROR TEMP" appears on display, means temperature is below -40°C or above 75°C. The device must be returned to normal temperature range. Return this unit to HSS Hire.

"ERROR EE", "ERROR PRG" or "ERROR RAM" indicate memory errors. Return unit to HSS Hire.

"ERROR UNK" means unknown error occurred. Return unit to HSS Hire.

"LOW BATT" warning repeats every 15 seconds. Remove from service as soon as possible and recharge battery.

"LOW ALARM" means battery is completely discharged. Device is no longer sensing gas. Remove from service and recharge battery.

"ERROR CHARGE" indicates charge error. Device must be between 10° C and 36° C to charge. Return unit to HSS Hire.

"SENSOR ERROR" indicates missing sensor. Verify if sensor is properly installed.

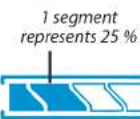
When the device does not turn on means the battery is low. Fix the problem by charging the device.

Sensor warning. Sensor is near the end of its life.

Sensor alarm. Sensor has reached the end of its life. Return unit to HSS Hire.

MAINTAINING POWER SOURCES

The battery condition icon is continuously displayed in the upper right-hand corner of the display. Each indicator segment represents approximately 25 % of the total battery capacity.



The nominal run-time of the device at room temperature is 24 hours. Actual run-time will vary depending on ambient temperature and alarm conditions.

A Low Battery Warning indicates that a nominal 30 minutes of operation remain before the battery's charge is depleted.

ATTENTION!

If battery warning alarm activates, stop using the device as it no longer has enough power to indicate potential hazards, and persons relying on this product for their safety could sustain serious personal injury or death.

When the device goes into Low Battery Warning, the battery life indicator flashes, alarm sounds, alarm LEDs flash and the battery icon in the upper right-hand corner of the display shows empty battery. The device repeats this warning every 15 seconds and continues to operate until it is turned off or battery shutdown occurs.

The device goes into battery shutdown mode 60 seconds before final shutdown. "Low Batt" flashes on the display and alarm sounds and lights flash. Alarm cannot be silenced. No other pages can be viewed. After approximately one minute, the device automatically turns off.

WARNING!

**When battery shutdown condition occurs
LEAVE THE AREA IMMEDIATELY.
Recharge the battery straightaway.**

CHARGING THE BATTERY

To Charge the Device firmly **insert the device into the charging cradle. The battery symbol will scroll through a progressively increasing number of segments and the charge LED will be red until 90 % of full charge has been**

obtained. Then the battery symbol will remain fully illuminated and the charge LED will be green while the battery is trickle charged to its full capacity.

If a problem is detected during charging, the battery symbol will flash and the charge LED will be orange. Remove then replace the device in the charging cradle to reset the charge cycle.

EQUIPMENT CARE

Never push the equipment beyond its design limits. If it will not do what you want with, assume you have the wrong equipment for the job. Contact HSS Hire for advice.

Handle the equipment with care. Avoid dropping, knocking or otherwise exposing it to damage.

If the unit is exposed to potential contaminants such as silicone, leaded petrol, halogens, antimony or oxygen levels above 21%, return it to your local branch of HSS Hire for re-calibration.

Keep the equipment clean - you will find this less of a chore if you clean it regularly, rather than wait until the end of the hire period.

When not in use, store the device in a safe, dry place between 18 °C and 30 °C

FINISHING OFF

Turn the instrument off.

Make sure all components are present.

Give the unit a thorough clean before replacing it with the charger and line in its carry-case, ready for return to HSS Hire.



... have you been trained

The law requires that personnel using this type of equipment in the workplace must be competent and qualified to do so.

Training is available at HSS Training
03457 66 77 99

...any comments?

If you have any suggestions to enable us to improve the information within this guide please e-mail your comments or write to the Safety Guide Manager at the address below
e-mail: safety@hss.com

©HSS Hire Service Group Ltd 2019 No. SS033/02

76 Talbot Road, Old Trafford, Manchester, M16 0PQ

Web Site: <http://www.hss.com>

SS033/02

Operating & Safety Guide SS033

HSS Hire



Personal Gas Detector

Continuously monitoring the atmosphere for dangerous levels of four separate gases Carbon Monoxide, Hydrogen Sulphide, Oxygen and Methane

Code 34098

Never use the charger or charge the battery in a potentially explosive atmosphere.

It is required that the device's sensitivity be tested before