For your safety

To ensure reliable operation and safety, it is required to pay attention to the following notes.

Hermann Sewerin GmbH is not liable for damage caused by failure to comply with these notes. The guarantee and liability conditions of the sales and delivery conditions of Hermann Sewerin GmbH are not extended by the following notes.

- This product may only be taken into service after reading carefully the abbreviated operating instructions and the corresponding documentation of the equipment to be tested.
- This product may only be taken into service by sufficiently qualified employees who are familiar with the relevant legal requirements.
- This product is exclusively destined for industrial and commercial applications and may only be used as agreed.
- Repairs may only be performed by qualified experts or appropriately trained staff.
- Modifications and conversions may only be carried out with prior written consent of Hermann Sewerin GmbH. The manufacturer is not liable for damage resulting from arbitrary modifications of the product.
- Only accessories manufactured by Hermann Sewerin GmbH may be used in conjunction with the product.
- Only spare parts approved by Hermann Sewerin GmbH may be used for repairs.
- Technical changes within the scope of further development remain reserved.

Apart from these notes, adhere also to the generally valid safety and accident prevention rules!

Application field

SPE ppm is a test instrument for FID equipment and devices with semiconductor sensor for outdoor applications:

PORTAFID®
EX-TEC® HS 660, 680
VARIOTEC® 4xx
VARIOTEC® 460 Tracergas

Technical data

Device connection:	plug-in coupling 5 mm
Gas flow:	0 – 80 l/h
Dimensions (W x H x D):	approx. 200 x 120 x 90 mm
Weight:	approx. 1200 g

Accessories

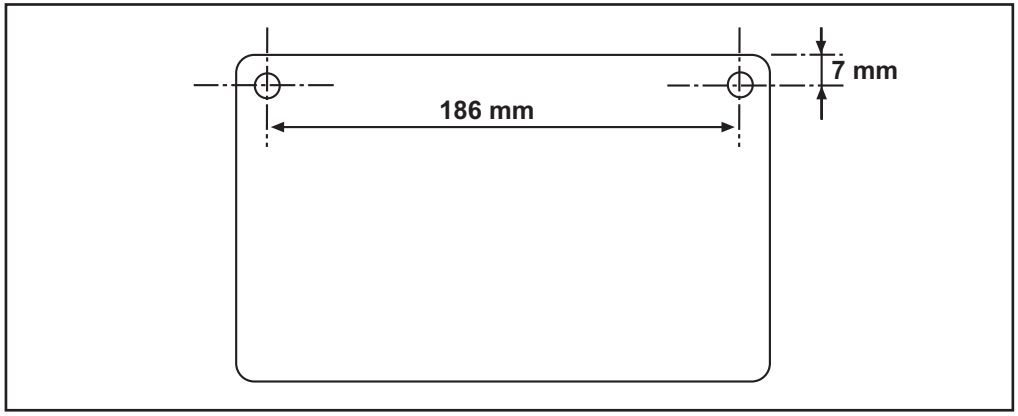
The following accessories are available for **SPE ppm**:

- Test gases
- Pressure hoses
- Adapter for pressure hoses
- Connection hoses
- Test caps
- Test heads
- Test plate

Mounting / installation

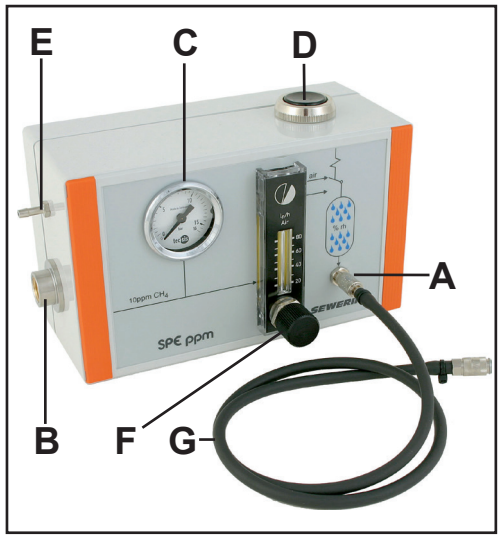
To permit testing, **SPE ppm** must be placed on a firm and level surface.

Optionally, **SPE ppm** may also be mounted to a wall. Pay attention to the following drilling plan for this.



Connections and operating elements

A Device connection
B Test gas connection
C Manometer
D Release button
E Fresh-air supply
F Needle valve with flowmeter
G Connection hose



Operation

- Open the needle valve (F) completely.
- Attach the connection hose (G) to the connection (A) and connect it with the device to be tested.
- Switch on the device to be tested to suck in fresh air via the test instrument.
- Write down the value of the flowmeter (F) or keep it in mind.
- Disconnect the device to be tested from the test instrument.
- Press briefly the release button (D) in order to remove the remaining gas from the instrument.
- Screw the test gas can on the connection (B). The manometer (C) shows the actual pressure inside the test gas container.
- Press the release button (D) to release the test gas. Keep the button pressed.
- Set the flowmeter to the value which you have previously written down. Use the needle valve (F) for setting the value.
- Release the release button (D).
- Reconnect the device to be tested.
- Switch on the device to be tested.
- Press the release button (D) to release the test gas.
- Keep the release button (D) pressed until the indicated value has settled on the device to be tested. Then, release the button.

The value indicated on the device to be tested must correspond to the pre-defined test gas concentration, or lie within the permissible tolerance ranges.

It is required to re-adjust the device, if the indicated values lie outside the specified tolerance ranges (see operating instructions of the device to be tested).