



SEWERIN

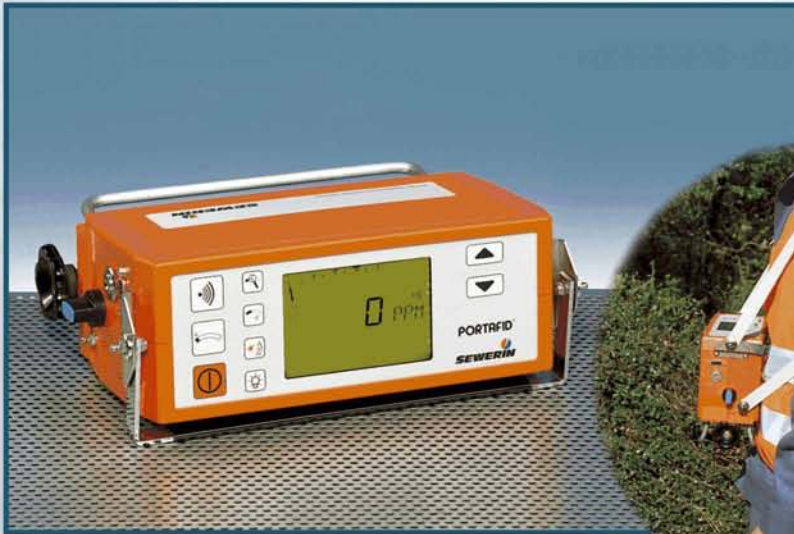
PORTAFID[®]



PORTAFID[®]

**For high standards in survey of gas distribution networks
Detection of landfill gas emissions**

Instrument Overview



PORTAFID® M3

Gas detection instrument (Flame-Ionisation-Detector)
complete with 0.1 l fuel gas bottle



PORTAFID® M3K

Gas detection instrument (Flame-Ionisation-Detector)
with comfortable carrying system and separated 0.4 l fuel gas bottle

LC Display

- ▶ large illuminated LC Display
- ▶ analogue and digital display of measured result
- ▶ automatic and manual switching of measuring ranges
- ▶ maximum pointer - marker for maximum concentration detected

Power Supply

- ▶ 8 hours operation time with pump switched on
- ▶ recharger for 12/24/230 volt
- ▶ complete charge within 2.5 hours
- ▶ display of remaining operating time

Features

- ▶ microprocessor-controlled
- ▶ automatic ignition when switching-on/manual re-ignition
- ▶ automatic zero point adjustment
- ▶ linear indication from 0 ... 10.000 ppm
- ▶ selectable alarm threshold (default: 3 ppm)
- ▶ automatic alarm re-activation
- ▶ monitoring of pump flow and flame status
- ▶ 2-step pressure regulator with high pressure stability
- ▶ display of fuel gas depending operating time (only **PORTAFID® M3**)
- ▶ choice of adjustment points of 10, 100, 1.000 or 10.000 ppm CH₄
- ▶ CEJN- or Rectus-probe connection included in delivery content
- ▶ output of measuring results via RS-232C-interface (for connecting to PC-, GPS- or Leakplotter systems)

Accessories

Carrying case

Case for transportation of a **PORTAFID**® as well as charging device, spare gas bottle and probe.
The big advantage: The detector can be recharged from the outside while the case is closed.



Probes for the survey of gas distribution networks

Carpet probe

for the survey of paved surfaces. The sample is taken in without disturbing waste fumes via a dome pressed into a neoprene mat covering the surface.

Bell probe

for the survey of unpaved or overgrown surfaces, enabling high flexibility (e.g. between parking vehicles or in front yards).



Charging Technique

The **PORTAFID**® can be recharged either in the workshop or in the service vehicle.

The following types of connections are available:

- AC / DC adapter to the mains 110-240 V/12 V
- Car adapter for 12 V
- Car adapter for 24 V



Test set

According to DVGW-Regulations G 465-4 all instruments which are used for systematic gas leak detection have to be checked daily in respect of sensitivity, before such work is carried out, and adjusted if necessary.

This control entails the gasing from a test gas bottle and the control of the pump capacity with a flow-meter.

The test case PPM is suitable for those purposes, containing 0.4 l gas bottle with 10 ppm Methane (CH₄), flow-meter and connection hoses inside of an plastic hard-top case.



Technique

Measuring ranges: automatically switching between
 0 ... 10 ppm
 0 ... 100 ppm
 0 ... 1.000 ppm
 0 ... 10.000 ppm = 1 vol.%

Power supply: NiMh-Accu, rechargeable

Electrical operating time: 8 hours with pump switched on

Fast charging technique: max. 2.5 hours charging time

Fuel gas supply: 40% hydrogen (H₂)/60% nitrogen (N₂) or 100% hydrogen (H₂)
 in fuel gas bottles with 0.1 l content
(PORTAFID® M3) or 0.4 l content **(PORTAFID® M3K)**

Operating time:

Fuel gas	40% H ₂ /60% N ₂	100% H ₂
PORTAFID® M3	5 h	10 h
PORTAFID® M3K	25 h	50 h

Operating temperature: -10 °C ... +40 °C

Storage temperature: -25 °C ... +70 °C

Dimensions (W x H x D): **PORTAFID® M3**

270 x 185 x 105 mm

Weight:

3.800 g

PORTAFID® M3K

270 x 140 x 105 mm

(without fuel gas bottle) 1.700 g



PORTAFID® M3

PORTAFID® M3K

