

Leakplotter



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The intelligent network patrol

for maximum safety of networks

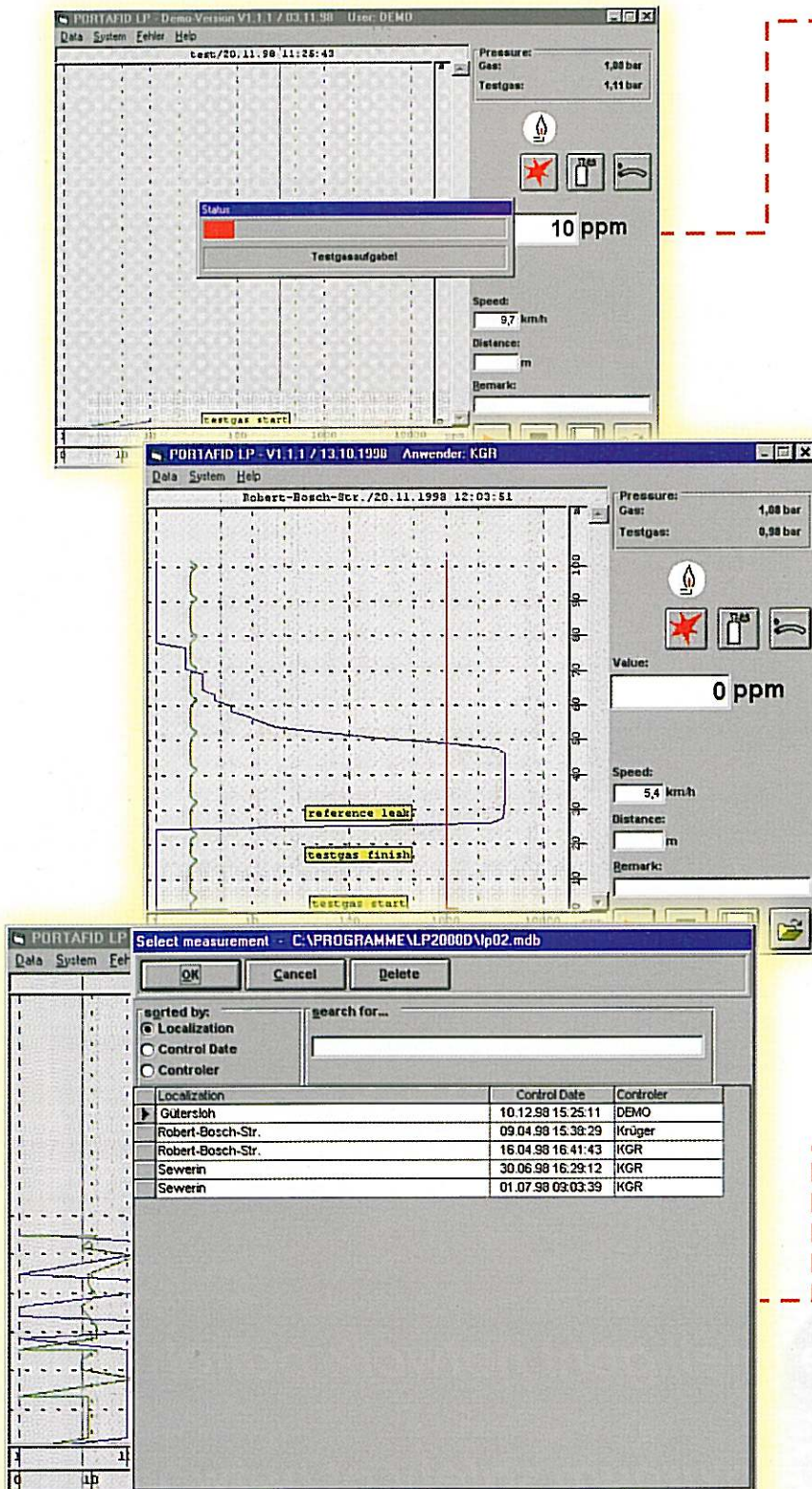
Software

The principal

The **Leakplotter** is a vehicle conception which complies with the requirements for an economic survey in pipe distribution networks by driving above a buried gas pipeline.

The total system is designed in a modular way, and therefore practically every type of base vehicle is suitable for this purpose.

Light gases escape from a leak – funnel-shaped – within the ground and diffund through the surface as well. While driving above the gas pipes a sample is taken and passed on to the measuring insert. As a result leakages within the spreading funnel are being indicated and recorded by the notebook.



System control

- Automatic survey of connection to measuring insert
- Permanent survey of pump flow and flame status of the FID
- Permanent survey and display of pressure inside the fuel- and test-gas bottle
- Automatic zero-point adjustment
- Automatic first ignition
- Manual ignition after "flame out" signal due to high gas concentration

Data collection

- Permanent record of actual speed and concentration
- Display of all relevant data on the main screen such as speed, concentration and alarm level
- Comments can be entered directly during the measurement
- Actual measured concentration displayed permanently

Data archive

- The viewer mode allows comparing different measurements taken
- Recorded data are stored in a data base for subsequent treatment
- Identification of measurements by location, date and controler
- Suitable sorting to be selected
- Search function is implemented

Components

Measuring insert

- Flame-Ionisation-Detector (FID), selective for detection of hydrocarbon gases
- Oxidiser to eliminate disturbances caused by environmental pollution or humidity
- 40% hydrogen / 60% nitrogen fuel gas and 10 ppm methane / synth. air test gas bottles
- Bypass and water-separator for probe inlet
- Remote operation in case of PC breakdown
- Mounted into 19" rack, installed in the vehicle



Suction unit

- Suction beam with 8 bells inclusive hose connection
- Dust filters in every bell to avoid damage to the FID unit
- Additional hose filters
- Adjustable in height
- Mounted at bumper of the measuring vehicle
- Two sections to fit into the vehicle without wasting useful space



PC control unit

- Notebook meeting the latest state of the art to control all features of the system
- Mounted on special pick-up system fixed on the base of the vehicle
- Notebook cover can be locked to prevent theft
- Adjustable in height and to be turned for an optimal view at the screen



Technical data

SEWERIN

Measuring vehicle

In general almost every car can be upgraded to become a **Leakplotter**, but most of them cause problems in every day use in the towns due to their size.

With the new SMART these problems are solved. Because of a length of only 2.50 metres and a width of 1.51 metres this car is able to pass even smallest roads, even driving on the pavements is possible.

The smart is available with two different engines:

- 600 ccm 33kW gasoline or
- 600 ccm 40 kW gasoline

A large range of features is already contained in the basic equipment. Even more are available as accessories. For further information please refer to the leaflet issued about this car.

Measuring insert

- 19" rack, carrying all components, mounted on the vehicle meeting customers requirements
- Primary Pump:
 - 12 V operated
 - 1800 l/h flow
- Standby-pump:
 - 12 V operated
 - 80l/h flow
 - bypass system to take probe out of primary flow
- FID unit:
 - sensitivity: 1 ppm methane
 - response time: < 5 sec.
 - linear concentration related signal
- Display and keyboard:
 - large, illuminated LCD display
 - remote control in case of PC breakdown

Probe system

- Suction beam of two joints, connected with quick-coupling
- 8 rubber bells with probe filters and hose connection to the beam
- Non corrosive mounting to vehicles bumper, adjustable in height
- Plastic hose with additional filters and water-separator, connected to measuring insert

Notebook / Printer

- Meeting the latest state of the art. Please ask for the actual type of Notebook in case of interest in placing an order with us.
- In case you decide to use your own PC please contact us in order to check the recommendable system requirements. The software and a total system check will be carried out after mounting of all components.
- The printer will as well be meeting the latest state of the art

Certified according to

