

## EX-TEC® SR 6

## VARIOTEC® 9-EX

### EX-TEC® SR 6, VARIOTEC® 9-EX

Ex-proof combination-measuring devices with automatic heavy gas display

DVGW regulation G465-4, issued in March 2001, demands amongst other things, that instruments used for localization purposes shall display, besides the methane display, of an automatic heavy gas display (carbon dioxide). New devices, using two thermal conductivity sensors within the measuring range 0.0 ... 100 vol. %, meet this demand as follows:

#### The advantages:

- Pinpointing the the edge of stationary gas zone of 0.1 vol. % fuel gas (DVGW G 465-4)
- Localization of small leakages, even though methane already mostly transformed into carbon dioxide
- High resolution in lower measuring range
- Both methane **and** carbon dioxide concentrations are always measured and displayed
- Linear characteristic, as the thermal conductivity sensors' operating temperature lies below the explosive limit of all gas components. Therefore no combustion at the sensors will take place
- Demands of EN 50058 and G 465-4 are met



#### EX-TEC® SR 6

- **Leak detection**  
ppm range
- **Localization**  
Vol. % range
- **Gas warning**  
% LEL range
- **Domestic services**  
ppm range
- **Gasing/Inertisation**  
Vol. % range



## VARIOTEC® 9-EX

- **Leak detection**  
ppm range
- **Localization**  
Vol. % range
- **Domestic services**  
ppm range
- **Gasing/inertisation**  
Vol. % range

### Probe overview

Various probes are available for diverse applications:

#### Probes for network survey

##### Carpet probe

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

##### Bell probe, telescopic bell probe

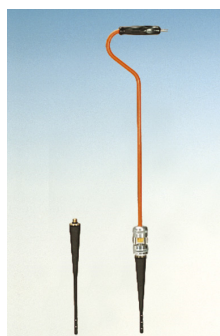
for the survey of unpaved and overgrown surfaces, provides more mobility, e. g. between parked cars or in front gardens



#### Probes for localization

##### Localization probe

for measuring concentrations in probe holes, with hard rubber cone to seal the probe hole, 2 different probe tips (length 245 mm or 345 mm)



#### Probes for confined spaces

##### Floating probe

for measuring concentrations in pits, floating body with suction vent and hose connection



### Divisible hand probe

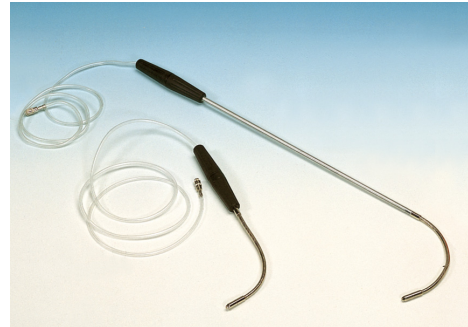
for leak detection at free-lying conduits or points difficult to reach, measuring concentrations in containers, total length 900 mm



### Probes for domestic services

#### Flexible hand probes

for leak detection at installation conduits, handle with flexible swan neck and probe hose, total length 360 mm or 660 mm



### Testing technique

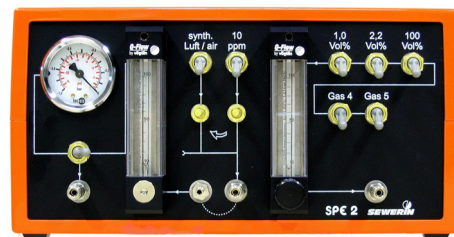
According to DVGW Regulation G 465-4, instruments used for systematical leak detection have to be checked daily in respect of sensibility and adjusted if necessary before such work is carried out.

This control entails the gasing from a pressure gas can (or bottle, resp.) and also controlling the pump capacity with a flowmeter.

Several test sets (for mobile application) are available for this purpose. Which test set suits each instrument can be seen from the product information "Test sets SPE".

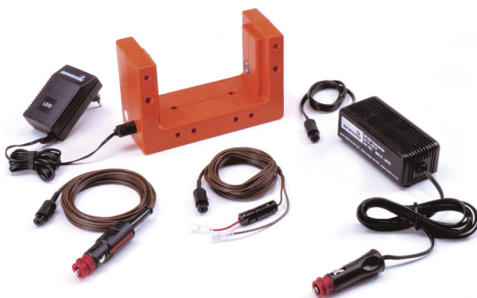


The test set **SPE 2** is especially designed for the stationary use at the workshop. This test set can be connected simultaneously with multiple test gas bottles.



### Charging technique

The instruments can be recharged with the charging station HS. This charging station can be kept at the workshop or be mounted in the service vehicle.



The following connection types are available:

- AC/DC adapter for 100 ... 240 V ~
- Car charging cable for 12 V =
- Car charging cable for 24 V =

## System case



The system case accommodates the measuring instrument, the charging technique as well as the probes. The big advantage: While inside the closed case, the instrument can be charged from the outside.

## Specifications

	EX-TEC® SR 6	VARIOTEC® 9-EX
<b>Sensors:</b>		
- Semiconductor	•	•
- Catalytic combustion	•	
- Thermal conductivity	•	•
<b>Measuring ranges CH<sub>4</sub>:</b>		
- 10 ppm	•	•
- 100 ppm	•	•
- 1.000 ppm	•	•
- 1 vol. %	•	•
- 100 %LEL	•	
- 100 vol. %	•	•
<b>Measuring ranges CO<sub>2</sub>:</b>		
- 100 vol. %	•	•
<b>EX-protection</b>	•	•

### Passive EX-protection

The instrument variants **EX-TEC® SR 6** and **VARIOTEC® 9-EX** are ex-proof in accordance with European standard (CENELEC):

- EC-type-examination certificate: **PTB 96 ATEX 2166**
- Identification: **Ex II 2 G EEx ib d IIB T3**
- Test institute: **Physikalisch-Technische Bundesanstalt, Braunschweig**

### Active EX-protection

The **EX-TEC® SR 6** was additionally tested in mode **gas warning** on function safety:

- Test report: **PFG-Nr. 41300897**
- Test institute: **DMT-Gesellschaft für Forschung und Prüfung mbH, Essen**

## The instrument variants are equipped with the following properties

Signals:	Audible (interruptable) and visual
Sample intake:	Via built-in membrane pump
Operating time:	Approx. 8 h (with pump operating)
Power supply:	NiCd-Akku, rechargeable
Operating temperature:	-10° ... +40° Celsius
Storage temperature:	-25° ... +70° Celsius
Protection class:	IP 54
Dimensions (WxHxD):	129 x 192 x 65 mm
Weight:	1,500 g

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We are certified in accordance with EN ISO 9001

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