

## **EX-TEC<sup>®</sup> HS 680**

**EX-TEC<sup>®</sup> HS 660 • 650 • 610**

Combination measuring devices  
for gas supply with integrated ethane detector



# EX-TEC® HS 680

## Cutting edge technology for gas supply

Products from the **EX-TEC® HS** family combine ergonomics with cutting edge technology.

Thanks to its innovative design this range offers the user the right instrument for different applications. You can find more details about the appliance configuration opposite.

All appliances from the **EX-TEC® HS** family meet the requirements of DVGW worksheet 465-4 (German Association of Gas and Water Specialists).



## Notes

### Ergonomics / operation

- Operated by jog dial, function keys and menu navigation
- Large matrix display with backlight
- Power supply via 4 changeable AA-size rechargeable batteries or disposable batteries
- Quick charging in 4 hrs, can also be charged without docking station
- PC communication via USB

### Safety

- Explosion protection: TÜV 07 ATEX 553353 X  $\text{Ex}$  II2G Ex d e ib IIB T4 Gb, IIC when used with carrying bag TG8
- Measuring function: BVS 09 ATEX G 001 X, PFG 08 G 002 X (measuring function **EX-TEC® HS 680, 650** only)

### Measuring technology

- Selective infrared sensors for hydrocarbons and carbon dioxide
- Fast and highly-sensitive semiconductive sensor
- Three optional electro-chemical sensors for oxygen and toxic gases
- Gas type setting: methane (standard), propane and butane (optional)
- Optional: ethane analysis to distinguish natural gas/swamp gas without any other accessories

## Applications

Application		Measurement ranges	Active principle
Inspection above ground		0 ppm – 10 % vol. CH <sub>4</sub>	Gas-sensitive semiconductor Infrared sensor
Measuring in bar holes		0.0 – 100 % vol. CH <sub>4</sub> 0 – 30 % vol. CO <sub>2</sub>	Infrared sensor Infrared sensor
Enclosed spaces		0 ppm – 100 % vol. CH <sub>4</sub>	Gas-sensitive semiconductor Infrared sensor
House		0 ppm – 100 % vol. CH <sub>4</sub>	Gas-sensitive semiconductor Infrared sensor
Explosion warning		0 – 100 % lower explosive limit CH <sub>4</sub>	Infrared sensor
Warning ExTox		0 – 100 % lower explosive limit CH <sub>4</sub> 0 – 5 % vol. CO <sub>2</sub> 0 – 25 % vol. O <sub>2</sub> (optional) 0 – 100 ppm H <sub>2</sub> S (optional) 0 – 500 ppm CO (optional)	Infrared sensor Infrared sensor Electro-chemical sensor Electro-chemical sensor Electro-chemical sensor
Measuring, gas purity		0.0 – 100 % vol. CH <sub>4</sub>	Infrared sensor
Ethane analysis		CH <sub>4</sub> , CH <sub>4</sub> , C <sub>2</sub> H <sub>6</sub> , C <sub>3</sub> H <sub>8</sub> (optional)	Gas-sensitive semiconductor / gas chromatograph

# EX-TEC® HS 680

## Increased safety and efficiency with innovative technology

The **EX-TEC® HS** product family helps the user clearly detect leaks in underground pipes.

To avoid costly and time-consuming pointless excavations, it must be absolutely certain that the gas is actually leaking from a natural gas pipeline. Locating the exact position of the leak also keeps shaft work to a minimum. **EX-TEC® HS** appliances offer new possibilities in this respect.

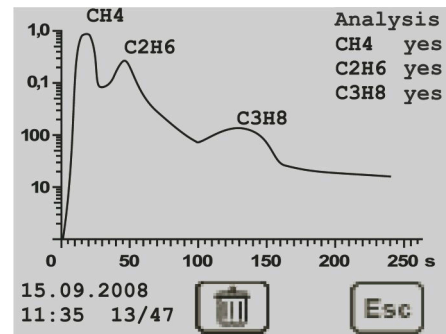
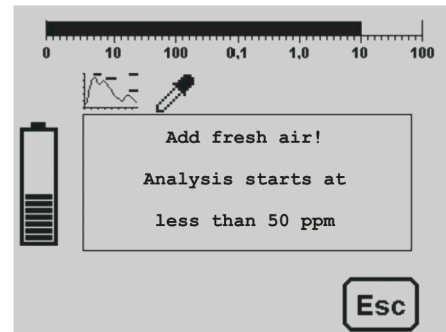
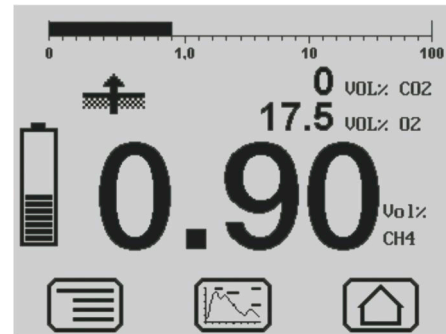
If the gas has dispersed over a wide area, it is often difficult to pinpoint the leak exactly. In many cases the gas gathers under fixed surfaces and spreads over long distances.

The optional oxygen sensor can also display the oxygen minimum at the same time as the methane maximum. This minimum, with its smaller diffusion area, is used to locate complex leaks more precisely.

The integrated ethane detector easily picks up whether the gas is natural gas or swamp gas. The user does not need any extra accessories or specialist knowledge.


The **EX-TEC® HS 680/660** guides the user through the ethane analysis with prompts.

The definitive result can be saved and further processed on the PC using the integrated USB port.



## Methane applications

### Choosing a model

Model	Inspection above ground 	House 	Explosion warning 	Warning ExTox 	Enclosed spaces 	Measuring in bar holes 	Measuring gas purity 
<b>EX-TEC® HS 680</b>	X	X	X	X	X	X	X
<b>EX-TEC® HS 660</b>	X	X			X	X	X
<b>EX-TEC® HS 650</b>			X	X		X	X
<b>EX-TEC® HS 610</b>						X	X

X = integrated

### Additional equipment

Model	Ethane detector	XT O <sub>2</sub> sensor	XT CO sensor	XT H <sub>2</sub> S sensor 100 ppm
<b>EX-TEC® HS 680</b>	O	O	O	O
<b>EX-TEC® HS 660</b>	O	O		
<b>EX-TEC® HS 650</b>		O	O	O
<b>EX-TEC® HS 610</b>		O		

O = optional



## Technical information

Detectable gases:	Gas database with calibration for methane, carbon dioxide and other gases, e.g. propane, butane
Operating time:	min. 8.0 hrs
Power supply:	4 NiMH batteries, rechargeable or 4 AA-size alkaline batteries
Protection rating:	IP54
Operating temperature:	-10 °C – +40 °C
Storage temperature:	-25 °C – +50 °C
Pressure:	950 hPa to 1100 hPa
Humidity:	15% r.h. to 90% r.h., non-condensing
Dimensions (W x D x H):	148 x 57 x 205 mm 253 mm (incl. supporting bracket)
Weight:	approx. 1000 g

## Accessories

- Charging equipment for 12 V~, 24 V= and 230 V~
- Docking station/wall mount
- System case
- Gas detection probes/localisation probes
- Test sets and test gases



## System case for network survey

- **EX-TEC® HS 680**
- Docking station TG 8
- AC/DC adapter
- Floating probe
- Flexible hand probe with probe hose
- Localisation probe
- Bell probe

Please contact us for a comprehensive quotation, including additional technical specifications and information on accessories.

# Diensten van EURO-INDEX

EURO-INDEX is fabrikant, importeur en distributeur van diverse A-merken op het gebied van test- en meetinstrumenten. Daarnaast leveren wij een groot aantal diensten om het gebruik van deze instrumenten in uw bedrijfsvoering te optimaliseren. Dit omvat uiteraard onderhoud, reparatie en kalibratie van de instrumenten, maar ook kennisdeling via EURO-INDEX Academy en verhuur van instrumenten.

## Geautoriseerd Service Centrum

EURO-INDEX b.v. is van alle vertegenwoordigde merken een Geautoriseerd Service Centrum. Dit betekent dat uw instrumenten worden behandeld door technici die zijn opgeleid door de fabrikant en beschikken over de juiste gereedschappen en software. Er worden uitsluitend originele onderdelen toegepast en de garantie van uw instrument, evenals de certificering (ATEX, EN50379, etc.) blijven intact.

## Kalibratielaboratorium

Het laboratorium in Nederland beschikt over een RvA accreditatie naar EN-ISO/IEC 17025. Deze accreditatie geldt voor grootheden, zoals gespecificeerd in de scope bij accreditatienummer K105. RvA kalibratiecertificaten zijn internationaal geaccepteerd en is gelijkwaardig aan BELAC.



## Mobiele Service

Naast de vaste kalibratielaboratoria in Zaventem en Capelle aan den IJssel beschikken wij ook over een laboratorium op wielen met de naam "Mobiele Service". Dit biedt vertrouwde service en kwaliteit, bij u voor de deur!

## KWS®

KWS® is een uniek servicesysteem voor uw meetinstrumenten met periodiek onderhoud en kalibratie tegen vaste, lage kosten. Via een gratis webportal ([mijnkws.be](http://mijnkws.be)) heeft u altijd en overal beschikking over uw kalibratiecertificaten.

## Verhuur van meetinstrumenten

- Uitgebreid assortiment
- Nauwkeurigheid aantoonbaar door actueel kalibratiecertificaat
- Deskundig advies
- Complete levering inclusief accessoires

## EURO-INDEX Academy

- Trainingen, seminars en workshops
- Demonstratie- en instructievideo's
- Application notes



Servicebalie



Onderhoud, reparatie en kalibratie



Trainingen en seminars



Mobiele Service

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