

EX-TEC® HS 680

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The new standard with combination measuring instruments for gas utilities



A new milestone in gas measuring technology is marked by the **EX-TEC® HS 680**.

The high-end model of the new range of instruments combines ergonomic handling and technology in one completely redesigned instrument concept. It complies with the requirements of the future appendix to G 465-4.

At the same time the measuring instrument weighs 30 % less than its predecessor **EX-TEC® SR 6**.

Features

- Innovative operating concept with jog dial, „soft keys“ and menu guidance
- Large matrix display with background illumination
- Selective infrared sensors for methane and carbon dioxide
- Calibration on methane (standard), propane and butane (optional)
- Fast and highly sensitive semi-conductors
- Three optional electrochemical sensors for oxygen and toxic gases
- Ethane analysis to determine natural gas/marsh gas without further accessories (optional)
- Quick charging in 4 h, regular charging 10 h, even without charging station
- Power supply via 4 disposable Mignon accumulators or primary cells
- EX-protection according to ATEX 100a IIB, IIC with leather bag
- PC communication via USB
- Combined carrying and display bow

Applications / measuring ranges / sensors

| Application | Measuring range | Sensors |
|-------------------------------|--|---|
| Inspection above ground | 1 ppm – 10 vol.% CH ₄ | Gas sensitive semi conductor, infrared sensor |
| Measuring in bar holes | 0,0 – 100 vol.% CH ₄ 0 – 30 vol.% CO ₂ | Infrared sensor Infrared sensor |
| Inspection of confined spaces | 1 ppm – 100 vol.% CH ₄ | Gas sensitive semi conductor, infrared sensor |
| Inspection indoors | 1 ppm – 100 vol.% CH ₄ | Gas sensitive semi conductor, infrared sensor |
| Warning ExTox | 0 – 100 % LEL CH ₄ 0 – 5 vol.% CO ₂ 0 – 25 vol.% O ₂ (optional) 0 – 100 ppm H ₂ S (optional) 0 – 500 ppm CO (optional) | Infrared sensor Infrared sensor Electrochemical Electrochemical Electrochemical |
| Measurement purity of gas | 0,0 – 100 vol.% CH ₄ | Infrared sensor |
| Ethane analysis | CH, CH ₄ , C ₂ H ₆ , C ₃ H ₈ (optional) | Gas chromatograph |

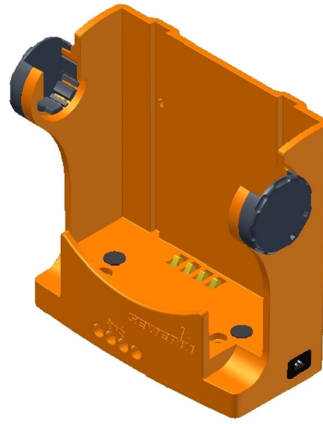
Technical data

| | |
|------------------------|---|
| Operating time: | min. 8,0 h |
| Power supply: | 4 NiMH accumulators, rechargeable or 4 Mignon Alkaline batteries |
| Protection class: | IP 54 |
| Operating temperature: | -10 °C – +40 °C non-condensing |
| Storage temperature: | -25 °C – +50 °C |
| Pressure: | 950 hPa – 1100 hPa |
| Humidity: | 15% rF – 90% rF |
| Dimensions: | (W x H x D) 148 x 57 x 205 mm 253 mm (incl. bow) |
| Weight: | approx. 1000 g |



Accessories

- Automatic testing station (in preparation)
- Charging technique for 12 V=, 24 V= and 230 V~
- Docking station/wall mounting support
- System case
- Gas detection probe/localisation probes
- Test sets and test gases



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We are certified in accordance with EN ISO 9001

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