

Technical data sheet

EX-TEC[®] OD 4

| Device data | |
|------------------------|--------------------------|
| Dimensions (W x D x H) | approx. 60 x 144 x 35 mm |
| Weight | approx. 300 g |

| Certificates | |
|--------------|--|
| Certificate | TÜV 01 ATEX 1657 II2G Ex e ib IIB T4 Gb basic device without leather bag for: every gas except hydrogen II2G Ex e ib IIC T4 Gb basic device with leather bag for: every gas including hydrogen |

| Device elements | |
|-----------------|---|
| Display | monochromatic graphic display, 65 x 132 pixels |
| Buzzer | frequency 2.4 kHz, volume 75 dB (A) / 1m |
| Signal light | red |
| Pump capacity | vacuum > 150 mbar, volume flow approx. 5 – 15 l/h |
| Interface | via HG 4 docking station with interface |
| Operation | menu guided, three keys |

| Operating conditions | |
|-----------------------|--|
| Operating temperature | -10 °C – +40 °C (basic device, for more information see sensor data) |
| Storage temperature | -25 °C – +55 °C (temperatures above 40 °C reduce the lifetime of the sensor) |
| Humidity | 10 – 90 % r.h., non-condensing (basic device, for more information see sensor data) |
| Atmospheric pressure | 800 – 1200 hPa |
| Protection rating | IP54 |

| Power supply | |
|-------------------------|--|
| Power supply | NiMH rechargeable or disposable alkaline batteries, type Mignon (AA) |
| Operating time, typical | 20 h (pump device) 50 h (diffusion device) |
| Charging time | approx. 12 h (fully charged) depends on capacity |
| Charging voltage | 12 V DC |
| Charging current | 360 mA (synchronised) |

| Electrochemical sensor THT | |
|-----------------------------------|--|
| Measuring range | 0 – 100 mg/m ³ |
| Resolution | 0.1 mg/m ³ |
| Response times | t ₉₀ < 210 s |
| Warm-up time | approx. 1 min |
| Measuring error | ±15 % or ±0.3 mg/m ³ (±3 digits) |
| Interference | <ul style="list-style-type: none"> - Carbon Dioxide CO₂ (5000 ppm): 0 mg/m³ - Carbon Monoxide CO (100 ppm): 2 mg/m³ - Carbon Oxide Sulfide COS (1 % vol.): 10 mg/m³ - Ethylene C₂H₄ (1 % vol.): yes, not defined - Hydrocarbons (100 % vol.): 0 mg/m³ - Hydrogen H₂ (1 % vol.): > 200 mg/m³ - Hydrogen Sulfide H₂S (20 ppm): 0 mg/m³ - Isopropanol C₃H₈O (200 ppm): 400 mg/m³ - Methane CH₄ (100 % vol.): 0 mg/m³ - Nitrogen N₂ (100 % vol.): 0 mg/m³ - Tert.-Butylmercaptane (10 mg/m³): 10 mg/m³ - Triethyleneglycol C₆H₁₄O₄ (ppm scale): yes, not defined |
| Operating temperature | -10 °C – +40 °C |
| Humidity | 10 – 95 % r.h., non-condensing |
| Lifetime, expected | 18 months |

| Electrochemical sensor TBM | |
|-----------------------------------|---|
| Measuring range | 0 – 100 mg/m ³ |
| Resolution | 0.1 mg/m ³ |
| Response times | t ₉₀ < 270 s |
| Warm-up time | approx. 1 min |
| Measuring error | ±15 % or ±0.3 mg/m ³ (±3 digits) |
| Interference | <ul style="list-style-type: none"> – Alcohols (1000 ppm): 0 ppm – Carbon Dioxide CO₂ (5000 ppm): 0 ppm – Carbon Monoxide CO (300 ppm): 0 ppm – Hydrocarbons (100 % vol.): 0 ppm – unsat. Hydrocarbons (1000 ppm): 0 ppm – Hydrochloric Acid HCl (10 ppm): 0 ppm – Hydrogen H₂ (1000 ppm): 0 ppm – Hydrogen Sulfide H₂S (1 ppm): 0 ppm – Nitrogen N₂ (100 % vol.): 0 ppm – Nitrogen Dioxide NO₂ (1 ppm): yes, not defined – Nitrogen Monoxide NO (10 ppm): 0 ppm |
| Operating temperature | -10 °C – +40 °C |
| Humidity | 10 – 95 % r.h., non-condensing |
| Lifetime, expected | 12 months |

106646 – 20-04-2015 – Subject to technical changes.