

Technical data sheet

EX-TEC[®] PM 4

| Device data | |
|------------------------|---|
| Dimensions (W x D x H) | approx. 60 x 144 x 35 mm, without swan neck |
| Weight | approx. 300 g, depending on equipment |

| Certificates | |
|--------------|--|
| Certificate | EC type TÜV 09 ATEX 555077 X II2G Ex d e ib IIB T4 Gb basic device without leather bag for: CH4, C3H8, C4H10, C6H14, C9H20, JFUEL II2G Ex d e ib IIC T4 Gb basic device with leather bag for: CH4, C3H8, C4H10, C6H14, C9H20, JFUEL, H2 BVS 09 ATEX G 002 X (applies to Warning %LEL, CH4, C3H8, C9H20) |

| Device elements | |
|-----------------|---|
| Display | monochromatic, 132 x 65 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 | -20 °C – +40 °C |
| Storage temperature | -25 °C – +55 °C |
| Humidity | 5 – 90 % r.h., non-condensing |
| Atmospheric pressure | 800 – 1200 hPa |
| Protection rating | IP54 |

| Power supply | |
|-------------------------|--|
| Power supply | NiMH rechargeable or disposable alkaline batteries, type Mignon (AA) |
| Operating time, typical | at least 8 h |
| Charging time | approx. 12 h (fully charged) depends on capacity |
| Charging voltage | 12 V DC |
| Charging current | 360 mA (pulsated) |

| Gas types | |
|------------------|--|
| Standard | methane CH ₄ (ppm / % LEL / % vol.) |
| Optional | propane C ₃ H ₈ (ppm / % LEL / % vol.) acetylene C ₂ H ₂ (% LEL) butane C ₄ H ₁₀ (ppm / % LEL) hexane C ₆ H ₁₄ (ppm / % LEL) nonane C ₉ H ₂₀ (ppm / % LEL) hydrogen H ₂ (ppm / % LEL) jet fuel (ppm / % LEL) town gas (ppm / % LEL / % vol.) |

| Catalytic combustion sensor LEL range | |
|--|---|
| Measuring range | 0 – 4.4 % vol. (CH ₄), 0 – 100 % LEL |
| Resolution | 0.05 % vol. |
| Response times | t ₅₀ < 5 s (CH ₄), t ₉₀ < 12 s (CH ₄) (pump devices) |
| Warm-up time | ≤22 s |
| Measuring error | ±2 % LEL (short-term stability as per EN 60079-29-1) ±4 % LEL (long-term stability as per EN 60079-29-1) |
| Interference | all flammable gases |
| Lifetime, expected | 5 years |

| Thermal conductivity sensor % vol. range | |
|---|--|
| Measuring range | 0 – 100 % vol. (CH ₄) |
| Resolution | 1 % vol. |
| Response times | t ₉₀ < 10 s (CH ₄) (pump devices) |
| Warm-up time | ≤22 s |
| Measuring error | 5 % (as per EN 60079-29-1) |
| Interference | all gases with a different thermal conductivity |
| Lifetime, expected | 5 years |

| Semiconductor sensor ppm range | |
|---------------------------------------|---|
| Measuring range | 0 – 10000 ppm (CH4) (operator guidance by application) 0 – 22000 ppm (CH4) (operator guidance by sensor) |
| Resolution | 1 ppm |
| Response times | t90 < 7 s (pump devices) |
| Warm-up time | approx. 1 min |
| Measuring error | 30 % |
| Interference | all flammable gases |
| Lifetime, expected | 5 years |

106642 – 12.10.2020 – Subject to technical changes.