



Multitec[®] 560

Series

Type/model	066 21
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Certificates

Certificate	TÜV 07 ATEX 553353 X • II 2G Ex db eb ib IIB T4 Gb basic device without leather bag for: ◦ CH₄, C₃H₈, C₄H₁₀, C₉H₂₀, H₂S, CO • II 2G Ex db eb ib IIC T4 Gb basic device with leather bag for: ◦ CH₄, C₃H₈, C₄H₁₀, C₉H₂₀, H₂S, CO, H₂ BVS 09 ATEX G 001 X, PFG 08 G 002 X • valid for CH₄, CO₂, O₂, CO, H₂S
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Device data

Dimensions (W × D × H)	pprox. 148 × 57 × 205 mm (5.83 × 2.24 × 8.07 in) approx. 148 × 57 × 253 mm (5.83 × 2.24 × 9.96 in) with supporting bracket
Weight	approx. 1000 g (35 oz), depending on equipment

Features

Display	monochrome, 320 x 240 pixel
Buzzer	• frequency: 2.4 kHz • volume: 80 dB (A) / 1 m (3.28 ft)
Signal light	red
Pump	• vacuum: > 250 mbar • volume flow: typically 50 l/h ±20 l/h • pump error (F100) depending on volume flow: ◦ ≤ 20 l/h F100 certain ◦ > 20 l/h – ≤ 35 l/h F100 possible
Interface	USB
Memory	8 MB
Controls	• ON/OFF key • 3 function keys • jog dial
Sensors	• IR for CO₂, CH₄ optional: • EC for O₂, H₂S, CO

Operating conditions*

Operating temperature	-20 – 40°C (-4 to 104 °F)
Humidity	5 – 90% r.h., non-condensing
Atmospheric pressure	800 – 1100 hPa (millibar)
Pressure at gas inlet	max. 100 mbar
Protection rating	IP54
Position of use	any

*Optional sensors can affect the operating conditions of the device.

Storage conditions

Storage temperature	-25 – 60°C (-13 °F – 140 °F) temperatures above 40°C (104 °F) reduce the service life of the sensors
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Power supply

Power supply	4 cells, type Mignon AA, optionally: • rechargeable batteries: NiMH • disposable batteries: Alkaline
Operating time, typical	at least 8 h
Charging time	approx. 3 h (complete charge), depending on capacity
Charging temperature	0 – 35 °C (32 °F – 95 °F)
Charging voltage	12 V DC (max. 1 A)

Data transmission

Communication	USB
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Gas types

Default	CH ₄
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Sensors

Note:

probes increase the stated response times.

Note for EC sensors:

at temperatures below 0°C the specified response times and decay times may be longer.

Methane CH₄ (Warning ExTox application)

Type	infrared sensor	
Measuring range	0 – 100% LEL	
Resolution	0.05% vol.	
Response times	t ₅₀ < 8 s	t ₉₀ < 14 s
Warm-up time	< 30 s	
Temperature range	-20 – 40 °C (-4 to 104 °F)	
Measuring error	as per EN 60079-29-1 • linearity: ≤3% LEL • short-term stability: ≤2% LEL • long-term stability: ≤ 4% LEL (2 months)	
Interference, known	all hydrocarbons C _x H _y	
Lifetime, expected	5 years	
Adjustment	test gas concentration: • zero point: hydrocarbon-free, clean air • CH₄: 2.20% vol., utilisable 1.00 – 4.00% vol.	

Methane CH₄ (Gas measuring application)

Type	infrared sensor	
Measuring range	0 – 100% vol.	
Resolution	• 0,1 Vol.-% (0 – 9,9 Vol.-%) • 1 Vol.-% (10 – 100 Vol.-%)	
Response times	t ₅₀ < 9 s	t ₉₀ < 17 s
Warm-up time	< 30 s	
Temperature range	-20 – 40 °C (-4 to 104 °F)	
Measuring error	±2% vol.	
Interference, known	all hydrocarbons C _x H _y	
Lifetime, expected	5 years	
Adjustment	test gas concentration: • zero point: hydrocarbon-free, clean air • CH₄: ◦ 100% vol. ◦ gas mixture 60% vol. CH₄ / 40% vol. CO₂	

Carbon dioxide CO₂ (Warning ExTox application)

Type	infrared sensor	
Measuring range	0 – 5% vol. • lower limit: 0.02% vol.	
Resolution	0.02% vol.	
Response times	t ₉₀ < 20 s	
Decay times	t ₁₀ < 14 s	
Warm-up time	< 30 s	
Temperature range	-20 – 40 °C (-4 to 104 °F)	
Measuring error	• linearity: ≤ 4% of measured value, minimum ≤ 0.02% vol. • long-term stability: ≤ 8% of measured value / ≤ 0.02% vol. (3 months)	
Zero point deviation	0.04% vol.	
Interference, known	none	
Humidity	5 – 90% r.h., non-condensing • short term: 0% r.h	
Lifetime, expected	5 years	
Adjustment	test gas concentration: • zero point: carbon dioxide-free, clean air • CO₂: 2.00% vol., utilisable 2.00 – 5.00% vol.	

Carbon dioxide CO₂ (Gas measuring application)

Type	infrared sensor	
Measuring range	0 – 100% vol.	
Resolution	• 0.1% vol. (0 – 9.9% vol.) • 1% vol. (10 – 100% vol.)	
Response times	t ₉₀ < 20 s	
Warm-up time	< 30 s	
Temperature range	-20 – 40 °C (-4 to 104 °F)	
Measuring error	±1.5% vol.	
Zero point deviation	0.04% vol.	
Interference, known	none	
Humidity	5 – 90% r.h., non-condensing • short term: 0% r.h	
Lifetime, expected	5 years	
Adjustment	test gas concentration: • zero point: carbon dioxide-free, clean air • CO₂: ◦ 100% vol. ◦ Gas mixture 60% vol. CH₄ / 40% vol. CO₂	

Oxygen O2

Type	electrochemical sensor
Measuring range	0 – 25% vol.
Resolution	0.1% vol.
Response times	t ₉₀ < 30 s
Warm-up time	up to 90 s
Temperature range	-20 – 40 °C (-4 to 104 °F)
Measuring error	as per EN 50104 • linearity: ≤ 1.5% of measured value, minimum ≤ 0.3% vol. • long-term stability: ≤ 0.2% vol. (3 months)
Drift	< 2% within 3 months
Interference, known	none
Humidity	5 – 90% r.h., non-condensing • short term: 0% r.h
Lifetime, expected	2 years
Adjustment	test gas concentration: • zero point: ◦ oxygen-free air ◦ 100% vol. N₂ ◦ 100% vol. CH₄ • O₂: 20.9% vol., e.g. clean air

Carbon monoxide CO

Type	electrochemical sensor	
Measuring range	0 – 500 ppm • lower limit: ◦ 0 – 100 ppm: 4 ppm ◦ > 100 ppm: 11 ppm	
Resolution	1 ppm	
Response times	t ₉₀ < 30 s	
Decay times	t ₁₀ ≤ 25 s	
Warm-up time	up to 90 s	
Temperature range	-20 – 40 °C (-4 to 104 °F)	
Measuring error	• ±3 %, minimum ±3 ppm (±3 digit) • long-term stability as per EN 45544 ◦ test gas: ≤ 4% of measured value ◦ zero point (fresh air): ≤ 1 ppm	
Drift	< 10% within 6 months	
Zero point deviation	• 0 – 100 ppm: 3 ppm • > 100 ppm: 13 ppm	
Interference, known	at 20 °C (68 °F) • C ₂ H ₂ 100 ppm: approx. 90 ppm CO • C ₂ H ₄ 100 ppm: approx. 96 ppm CO • Cl ₂ 15 ppm: approx. 1 ppm CO • H ₂ 200 ppm: approx. 30 ppm CO • H ₂ S 50 ppm: approx. 1 ppm CO • NH ₃ 50 ppm: approx. 0 ppm CO • NO 50 ppm: approx. 15 ppm CO • SO ₂ 20 ppm: approx. 0 ppm CO	
Humidity	15 – 90% r.h., non-condensing • short term: 0% r.h	
Lifetime, expected	3 years	
Adjustment	test gas concentration: • zero point: clean air • CO: 40 ppm, utilisable 10 – 150 ppm	

Hydrogen sulphide H₂S (Warning ExTox application)

Type	electrochemical sensor	
Measuring range	0 – 100 ppm	
	• lower limit:	1 ppm
Resolution	1 ppm	
Response times	t ₉₀ < 60 s	
Decay times	t ₁₀ < 90 s	
Warm-up time	up to 120 s	
Temperature range	-20 – 40 °C (-4 to 104 °F)	
Measuring error	• ≤ 2% of measured value, minimum ≤ 1 ppm • long-term stability as per EN 45544 ◦ test gas: ≤ 1% of measured value ◦ zero point (fresh air): ≤ 1 ppm	
Drift	< 10% within 6 months	
Zero point deviation	1 ppm	
Interference, known	bei 20 °C • H₂ 2 Vol.-%: ca. 150 ppm H₂S • Isopropanol 1 Vol.-%: ca. 0 ppm H₂S • NH₃ 1000 ppm: ca. 0 ppm H₂S	
Humidity	15 – 90 % rF, nicht kondensierend • kurzzeitig: 0 % rF	
Lifetime, expected	2 years	
Adjustment	test gas concentration: • zero point: clean air • H₂S: 40 ppm, utilisable 10 – 100 ppm	

Hydrogen sulphide H₂S (Gas measuring application)

Type	electrochemical sensor
Measuring range	0 – 2000 ppm • lower limit: 1 ppm
Resolution	• 1 ppm (to 100 ppm) • 2 ppm (from 100 ppm)
Response times	t ₉₀ < 60 s
Decay times	t ₁₀ < 90 s
Warm-up time	up to 120 s
Temperature range	-20 – 40 °C (-4 to 104 °F)
Measuring error	• ≤ 2% of measured value, minimum ≤ 1 ppm • long-term stability as per EN 45544 ◦ test gas: ≤ 1% of measured value ◦ zero point (fresh air): ≤ 1 ppm
Drift	< 10% within 6 months
Zero point deviation	2 ppm
Interference, known	at 20 °C (68 °F) • H ₂ 2% vol.: approx. 150 ppm H ₂ S • Isopropanol 1% vol.: approx. 0 ppm H ₂ S • NH ₃ 1000 ppm: approx. 0 ppm H ₂ S
Humidity	15 – 90% r.h., non-condensing • short term: 0% r.h
Lifetime, expected	2 years
Adjustment	test gas concentration: • zero point: clean air • H ₂ S: 180 ppm, utilisable 150 – 1200 ppm

Diensten van EURO-INDEX

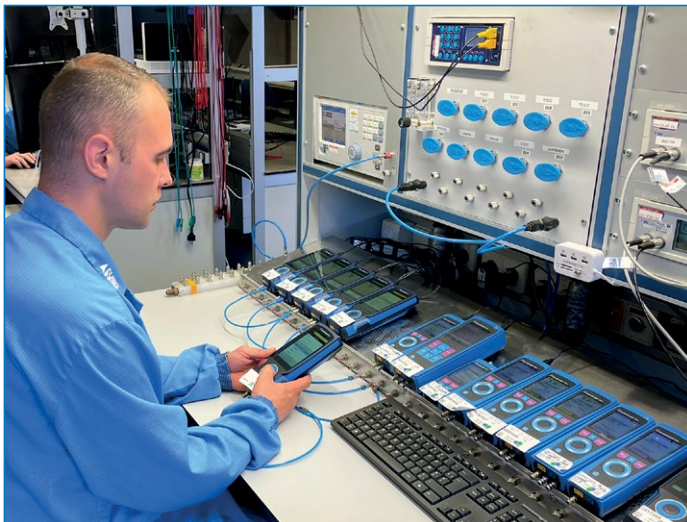
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Kalibratielaboratorium

Ons service- en kalibratielaboratorium is BELAC-geaccrediteerd volgens de norm EN-ISO/IEC 17025. De accreditatie geldt voor grootheden en meetbereiken zoals vermeld in de gewaarmerkte bijlage met certificaatnummer [760-CAL](#).



KWS®

KWS® is een kalibratieformule voor uw test- en meetinstrumenten met periodiek onderhoud en kalibratie tegen vaste, lage kosten. Uw kalibratiecertificaten zijn digitaal beschikbaar via Mijn KWS (gratis webportaal en app) en door de QR-code te scannen op de kalibratiesticker van het instrument.

Verhuur van meetinstrumenten

Er zijn diverse situaties waarbij huren handig is:

- U heeft tijdelijk extra toestellen nodig.
- Uw eigen meetinstrument wordt onderhouden en/of gekalibreerd.
- U moet een eenmalige meting verrichten.

EURO-INDEX Academy

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



Servicebalie



Onderhoud, reparatie en kalibratie



Trainingen en seminars



Kalibratielaboratorium

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