



Multitec[®] 520

Series

Type/model	066 01
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Certificates

Certificate	TÜV 07 ATEX 553353 X <ul style="list-style-type: none">• II 2G Ex db eb ib IIB T4 Gb basic device without leather bag for:<ul style="list-style-type: none">◦ CH₄, C₃H₈, C₄H₁₀, C₉H₂₀, H₂S, CO• II 2G Ex db eb ib IIC T4 Gb basic device with leather bag for:<ul style="list-style-type: none">◦ CH₄, C₃H₈, C₄H₁₀, C₉H₂₀, H₂S, CO, H₂ BVS 09 ATEX G 001 X, PFG 08 G 002 X <ul style="list-style-type: none">• valid for CH₄, C₃H₈, C₉H₂₀, CO₂, O₂, CO, H₂S
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Device data

Dimensions (W × D × H)	approx. 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	<ul style="list-style-type: none"> • frequency: 2.4 kHz • volume: 80 dB (A) / 1 m (3.28 ft)
Signal light	red
Pump	<ul style="list-style-type: none"> • vacuum: > 250 mbar • Volume flow: typically 50 l/h ±20 l/h • Pump error (F100) depending on volume flow: <ul style="list-style-type: none"> ◦ ≤ 20 l/h F100 certain ◦ > 20 l/h – ≤ 35 l/h F100 possible
Interface	USB
Memory	8 MB
Controls	<ul style="list-style-type: none"> • ON/OFF key • 3 function keys • jog dial
Sensors	<ul style="list-style-type: none"> • IR for flammable gases (CH₄, C₃H₈, C₄H₁₀, C₉H₂₀) • IR for CO₂ optional: <ul style="list-style-type: none"> • EC for O₂, H₂S, CO, NH₃

Operating conditions*

Operating temperature	-20 – 40 °C (-4 to 104 °F)
Humidity	5 – 90% r.h., non-condensing
Atmospheric pressure	900 – 1100 hPa
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: <ul style="list-style-type: none"> • 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
Optional	<ul style="list-style-type: none"> • C₃H₈ • C₄H₁₀ • C₉H₂₀

Sensors

Note:

Probes increase the stated response times.

Methane CH₄, propane C₃H₈, butane C₄H₁₀, nonane C₉H₂₀

Type	infrared sensor	
Measuring range	0 – 100% LEL	
Resolution	<ul style="list-style-type: none"> • CH₄: 0,05 Vol.-% • C₃H₈, C₄H₁₀, C₉H₂₀: 0,02 Vol.-% 	
Response times	<ul style="list-style-type: none"> • CH₄: t₅₀ < 8 s t₉₀ < 14 s • C₃H₈, C₄H₁₀: t₅₀ < 9 s t₉₀ < 17 s • C₉H₂₀: t₅₀ < 16 s t₉₀ < 120 s 	
Warm-up time	< 30 s	
Temperature range	-20 – 40 °C	
Measuring error	as per EN 60079-29-1 <ul style="list-style-type: none"> • CH₄: ±1% LEL (short-term stability) ±4% LEL (long-term stability) • C₃H₈: ±1% LEL (short-term stability) ±1% LEL (long-term stability) • C₉H₂₀: ±5% LEL 	
Interference, known	all hydrocarbons C _x H _y	
Lifetime, expected	5 years	
Adjustment	test gas concentration: <ul style="list-style-type: none"> • zero point: hydrocarbon-free, clean air • CH₄: 2.20% vol., utilisable 1.00 – 4.00% vol. • C₃H₈: 1.00% vol., utilisable 0.85 – 1.50% vol. • C₄H₁₀: 1.00% vol., utilisable 0.50 – 1.30% vol. • C₉H₂₀: 0.22% vol. (substitute test gas: 0.3% vol. C₃H₈) 	

Carbon dioxide CO2

Type	infrared sensor	
Measuring range	0 – 5% vol. • lower limit: 0.02% vol.	
Resolution	0.02% vol.	
Response times	t90 < 20 s	
Decay times	t10 < 14 s	
Warm-up time	< 30 s	
Temperature range	-20 – 40 °C (-4 to 104 °F)	
Measuring error	as per EN 45544 • ±0.04% vol. (long-term stability)	
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.	

Oxygen O2

Type	electrochemical sensor	
Measuring range	0 – 25% vol.	
Resolution	0.1% vol.	
Response times	t90 < 15 s	
Warm-up time	up to 90 s	
Temperature range	-20 – 40 °C (-4 to 104 °F)	
Measuring error	±3 %, minimum ±0.3 % vol. (±3 digit)	
Drift	< 2% within 3 months	
Interference, known	none	
Humidity	5 – 90% r.h., non-condensing • short term: 0% r.h	
Lifetime, expected	3 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

Type	electrochemical sensor
Measuring range	0 – 100 ppm • lower limit: 1 ppm
Resolution	1 ppm
Response times	t ₉₀ < 30 s
Decay times	t ₁₀ < 27 s
Warm-up time	up to 120 s
Temperature range	-20 – 40 °C (-4 to 104 °F)
Measuring error	<ul style="list-style-type: none"> • ±3 %, minimum ±3 ppm (±3 digit) • long-term stability as per EN 45544 <ul style="list-style-type: none"> ◦ Test gas: ≤ 12% 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) <ul style="list-style-type: none"> • CO 200 ppm: approx. 5 ppm H₂S • H₂ 100 ppm: approx. -2 ppm H₂S • NO 50 ppm: approx. 10 ppm H₂S • NO₂ 200 ppm: approx. -3 ppm H₂S • SO₂ 20 ppm: approx. 3 ppm H₂S
Humidity	15 – 90% r.h., non-condensing <ul style="list-style-type: none"> • short term: 0% r.h
Lifetime, expected	> 3 years
Adjustment	test gas concentration: <ul style="list-style-type: none"> • zero point: clean air • H₂S: 40 ppm, utilisable 10 – 100 ppm

Ammonia NH₃

Type	Electrochemical sensor
Measuring range	0 – 100 ppm
Resolution	1 ppm
Response times	t ₉₀ < 60 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)
Drift	< 5% within 6 months
Interference, known	at 20°C (68 °F) <ul style="list-style-type: none"> • H₂ 20 ppm: approx. 1 ppm NH₃
Humidity	15 – 90% r.h., non-condensing <ul style="list-style-type: none"> • short term: 0% r.h
Lifetime, expected	> 2 years
Adjustment	test gas concentration: <ul style="list-style-type: none"> • zero point: clean air • NH₃: 50 ppm in N₂, utilisable 10 – 50 ppm

Diensten van EURO-INDEX

EURO-INDEX is fabrikant van BLAUWE LIJN en importeur/distributeur van diverse A-merken test- en meetinstrumenten. Wij leveren naast instrumenten ook de diensten om het gebruik hiervan in uw bedrijfsvoering te optimaliseren. Dit omvat uiteraard onderhoud, reparatie en kalibratie van instrumenten, maar ook kennisdeling via de EURO-INDEX Academy en verhuur van meetinstrumenten.

Geautoriseerd Service Centrum

EURO-INDEX is van de meeste merken in ons assortiment 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 blijft intact, net als de certificering (ATEX, EN50379, etc.).

Kalibratielaboratorium

Ons moderne service- en kalibratielaboratorium beschikt over een RvA accreditatie naar NEN-EN-ISO/IEC 17025. Deze accreditatie geldt voor grootheden, zoals gespecificeerd in de scope bij [accreditatienummer K105](#).



Kijk voor een overzicht van al onze diensten op euro-index.nl/diensten

KWS®

KWS® is een unieke 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 van de kalibratiesticker op 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 (individueel en klassikaal)
- Cursussen, infosessies en workshops
- Demonstratie- en instructievideo's
- Whitepapers



Servicebalie



Onderhoud, reparatie en kalibratie



Cursussen en workshops



Kalibratielaboratorium

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