

MEASURING TECHNOLOGY

Exhaust gas measurement – Pressure and leakage testing – Leak detection

REMS

for Professionals



Made in Germany

Electronic flue gas analyser and pressure testing device with Connected functionality

German quality product





REMS FG4500 C – Compact. Handy. Light. Universally for flue gas analysis and pressure testing with compressed air/inert gas or water.

- Compact, handy electronic flue gas analyser and pressure testing device, ultra light, for one-hand operation, measuring instrument weighs only 425 g.
- For flue gas analysis in accordance with EN 50379 Part 1 and 3.
- Sturdy, impact-resistant plastic housing with ergonomically shaped handle.
- Gas processing cartridge made of impact-resistant, shock-proof plastic, firmly integrated into the housing and therefore safe from impact, with large viewing windows, with quick-release catches for easy cleaning of the condensate tank and fast filter replacement.
- Fastening kit, consisting of Velcro tape for easy fastening of the device, e.g. to a pipe or another section, with an eye for hanging up, e.g. on a nail or hook as well as a strong, screw-on magnet.
- Input and control unit with 3.5" colour display with touch function and modern TFT LCD technology, 89 mm screen diagonal, 320 × 240 pixels.
- User-friendly menu guidance takes you step by step through the testing process Easy to understand operating instructions can be displayed at the start of a function on request, supplemented by context-related help and visual feedbacks for support.
- Li-Ion technology. Measuring instrument with integrated Li-Ion battery 3.7 V, 2.7 Ah Light and powerful. High energy density for approx. 8 hours continuous operation.
- Light, handy flue gas probe with thermocouple, probe tube Ø 6 mm, 240 mm long. Probe hose with probe lead, 1.5 m long, very flexible, for easy handling and large working radius.
- Electronic flue gas analyser and pressure testing devices FG4500 C and FG7500 C with numerous functions for different applications, see product comparison on page 12.
- Results of the measuring and test programs are saved with date, time and log number in the selected language and can be printed, stored or sent for documentation. Printer with Bluetooth or IR interface for direct log printing, as an accessory.
- Connected functionality with Bluetooth or USB, see page 29.





Info

REMS FG4500 C Set

Electronic flue gas analyser and pressure testing device with Connected functionality via Bluetooth or USB. Internal gas sensors O₂, CO and internal pressure sensor ≤ 150 hPa/mbar. Gas processing cartridge. Flue gas probe FG4500 with temperature sensor. 10 filter fleece pads FG4500, 5 filter discs FG4500, pressure hose PX/FG, Ø 5 mm, 1 m long, fastening kit, cable USB-C to USB-A, power supply/charger 100–240 V, 50–60 Hz, 7.5 W, 5 V, 1.5 A. In L-Boxx system case.
Art.-No. 610050 R220G

€ **1,160.⁰⁰**

See pages 10–11 for accessories.

Electronic flue gas analyser and pressure testing device with Connected functionality

German quality product



Connected functionality with Bluetooth or USB

Li-Ion battery for approx. 8 hours continuous operation

Compact design, rugged housing with soft grip

Handy exhaust gas probe with thermocouple and draught sensor

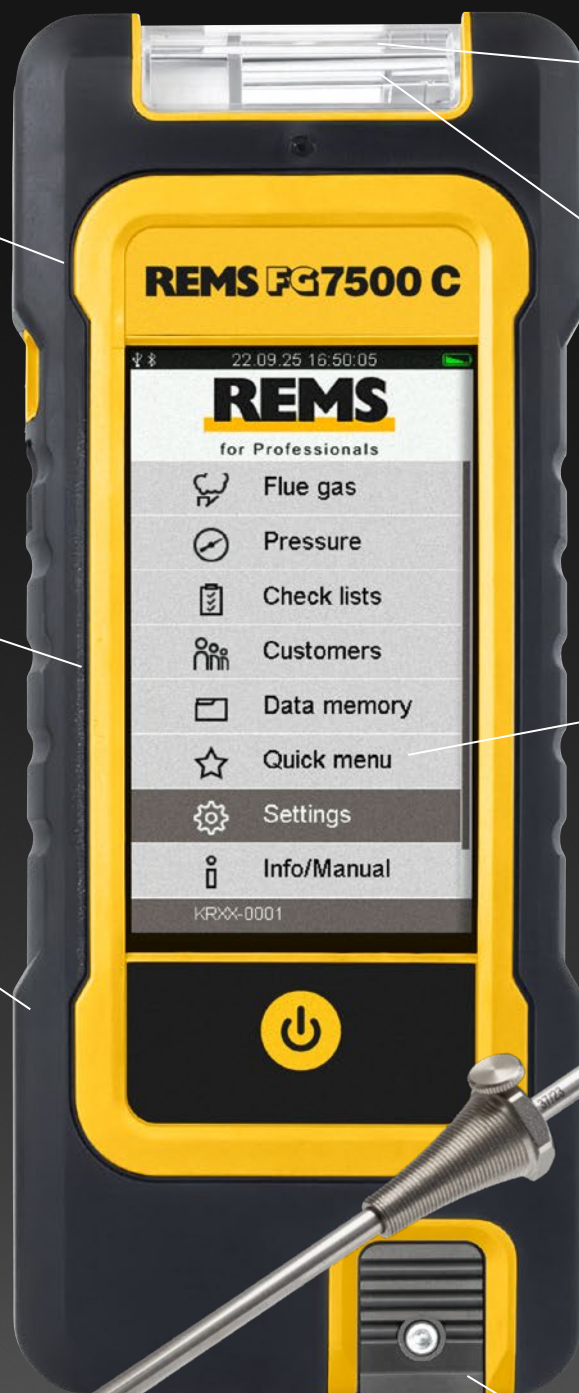
Protected gas processing cartridge

Innovative plug system for fast filter replacement

4.5" colour display with touch function

Combi-plug system

LED for easy determination of the core flow

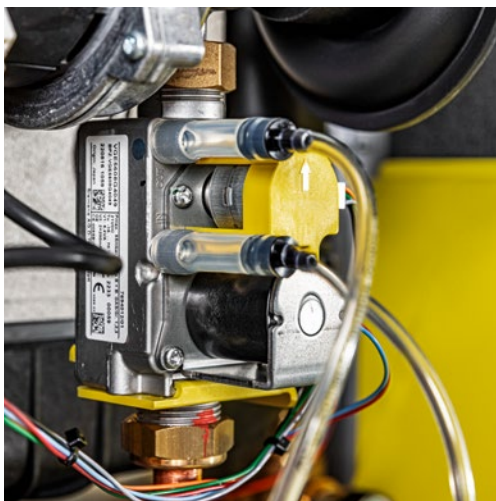
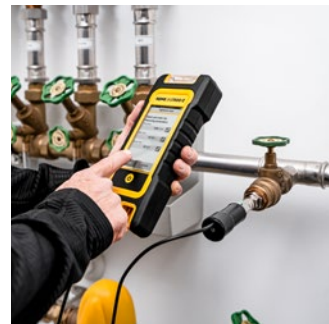
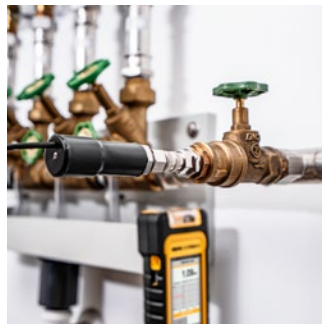
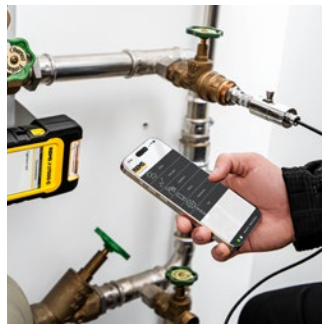




REMS FG7500 C – Compact. Handy. Light.

Universally for flue gas analysis, pressure and leakage testing as well as usefulness testing of gas installations.

- Simultaneous measurement of draught and nozzle or combustion chamber pressure saves an additional measurement.
- Compact, handy electronic flue gas analyser and pressure testing device, ultra light, for one-hand operation, measuring instrument weighs only 540 g.
- For flue gas analysis in accordance with EN 50379 Part 1 and 2.
- Sturdy, impact-resistant plastic housing with ergonomically shaped handle.
- Quick-change gas processing cartridge FG7500/FG7700 made of impact-resistant, shock-proof plastic, with large viewing window, with innovative plug system for easy cleaning of the condensate tank and fast filter replacement.
- Input and control unit with 4.5" colour display with touch function and modern TFT LCD technology, 114 mm screen diagonal, 480 × 272 pixels. On/Off button. User-friendly menu guidance takes you step by step through the testing process Easy to understand operating instructions can be displayed at the start of a function on request, supplemented by context-related help and visual feedbacks for support.
- 13 different measuring and test programs in 16 languages.
- Li-Ion technology. Measuring instrument with integrated Li-Ion battery 3.7V, 3.4Ah Light and powerful. High energy density for approx. 8 hours continuous operation.
- Light, handy flue gas probe with temperature sensor, draught sensor, probe tube Ø 6 mm, 210 mm long. Green LED for indicating readiness for operation. Yellow LED for easy determination of the core flow. Probe hose with probe lead, 1.4 m long, very flexible, with combi-plug system for quick probe change. Multi-hole or annular clearance probe attachment as an accessory.
- Time/pressure diagram for recording the pressure curve over the complete testing time for easy assessment of the tightness.
- Electronic flue gas analyser and pressure testing devices FG4500 C and FG7500 C with numerous functions for different applications, see product comparison on page 12.
- Results of the measuring and test programs are saved with date, time and log number in the selected language and can be printed, stored or sent for documentation. Printer with Bluetooth or IR interface for direct log printing, as an accessory.
- Connected functionality with Bluetooth or USB, see page 29.





Info

REMS FG7500 C Set

Electronic flue gas analyser and pressure testing device with Connected functionality via Bluetooth or USB. Internal gas sensors O₂, CO (H₂-compensated) and internal pressure sensor ≤ 150 hPa/mbar. Quick-change gas processing cartridge FG7500/FG7700. Flue gas probe FG 7500/7700 with temperature sensor, draught sensor, core flow indicator 10 filter fleece pads FG7500/FG7700, 5 filter discs FG7500/FG7700, pressure hose PX/FG, $\varnothing$ 5 mm, 1 m long, cable Micro-USB to USB-A, power supply/charger 110–240 V, 50–60 Hz, 7.5 W, 5 V, 1.5 A. In L-Boxx system case.

Art.-No. 610060 R220G € 1,980.00

€ **1,770.⁰⁰**



Info

REMS FG7500 NO C Set

Same as REMS FG7500 C Set (Art.-No. 610060), but with additional internal gas sensor NO.

Art.-No. 610065 R220G

€ **2,450.⁰⁰**

See pages 10–11 for accessories.

Accessories REMS FG4500 C, FG7500 C



Description	FG4500 C	FG7500 C	Art.-No.	€
Flue gas probe FG4500 , with temperature sensor, probe tube Ø 6 mm, 240 mm long. Sealing and fastening cone, can be shifted and locked without tools. Probe hose with probe lead, 1.5 m long, very flexible, for easy handling and large working radius.	●		610109 R	189.00
Flue gas probe FG7500 with temperature sensor, draught sensor, probe tube Ø 6 mm, 210 mm long. Sealing and fastening cone, can be shifted and locked without tools. Green LED for indicating readiness for operation. Yellow LED for easy determination of the core flow. Probe hose with probe lead, 1.4 m long, very flexible, with combi-plug system for quick probe change.		●	610108 R	369.00
Multi-hole probe attachment FG7500 for flue gas probe FG7500, with linearly arranged bore holes for even gas tapping over the whole cross-section of the flue pipe, for measuring the representative CO concentration during flue gas route testing.		●	610113 R	126.00
Annular clearance probe attachment FG7500 for flue gas probe FG7500, made of flexible plastic tubing with linearly arranged bore holes for even gas tapping in the annular clearance, for measuring the O ₂ -concentration.		●	610110 R	126.00
Probe hose extension with probe lead FG 7500 , 1.5 m long, very flexible, with combi-plug system (plug, socket)		●	610211 R	67.80
Flow measuring probe FG7500/FG7700 , probe tube Ø 6 mm, 210 mm long. Sealing and fastening cone, can be shifted and locked without tools. Green LED for indicating readiness for operation. Connecting lead 1.4 m long with jack. For determining the ventilation loss during the heating check.		●	610118 R	411.00
Surface temperature sensor FG7500/FG7700 , connecting lead 1.4 m long, with jack. For determining the surface temperature loss during the heating check.		●	610125 R	124.00
Heating check accessory kit FG7500/FG7700 , flow measuring probe FG7500/FG7700, surface temperature sensor FG7500/FG770		●	610126 R	480.00
Pressure hose PX/FG, Ø 5 mm , transparent, 1 m long, with bayonet connection (plug), with silicone tubing, for measuring gas and flow pressure, for leakage testing with compressed air/inert gas ≤ 150 hPa/mbar (connection piece air pump with Schrader valve ≤ 150 hPa/mbar, Art.-No. 611123 R, necessary).	●	●	610106 R	21.20
Flue gas probe FG4500 flex , with temperature sensor, flexible probe tube Ø 8 mm, 240 mm long. Sealing and fastening cone, can be shifted and locked without tools. Probe hose with probe lead, 1.5 m long, very flexible, for easy handling and large working radius.	●		610201 R	239.00
Combustion air temperature sensor FG7500/FG7700, 130 mm , sensor tube 130 mm long, adjustable sealing and fastening cone, connecting lead 1,5 m long, with jack. For measuring the combustion air temperature in the annular clearance.		●	610111 R	145.00
Combustion air temperature sensor FG7500/FG7700, 300 mm , sensor tube 300 mm long, adjustable sealing and fastening cone, connecting lead 1,5 m long, with jack. For measuring the combustion air temperature in the annular clearance.		●	610325 R	154.00
Electronic ambient air temperature sensor FG7500/FG7700 , with jack, for measuring the ambient air temperature		●	610114 R	76.80

Accessories REMS FG4500 C, FG7500 C



Description	FG4500 C	FG7500 C	Art.-No.	€
Quick-change gas processing cartridge FG7500/FG7700 with filter insert FG7500/FG7700, filter fleece pad FG7500/FG7700 and filter disc FG7500/FG7700, for cleaning/filtration and drying of the flue gas prior to measuring.	●		610138 R	69.30
Filter-Set FG4500 10 filter fleece pads FG4500 and 5 filter discs FG4500	●		610146 R	11.70
Filter-Set FG7500/FG7700 10 filter fleece pads FG7500/FG7700 and 5 filter discs FG7500/FG7700		●	610136 R	12.40
Filter insert FG7500/FG7700 with filter fleece pad FG7500/FG7700 and filter disc FG7500/FG7700, for high filter performance		●	610215 R	9.80
Filter insert FG7500/FG7700 S with double filter fleece pad FG7500/FG7700, filter disc FG7500/FG7700 and Vyon filter disc for higher filter performance especially for solid fuels.		●	610203 R	13.40
Filter insert FG7500/FG7700 NOx with filter fleece pad FG7500/FG7700, filter disc FG7500/FG7700, gas filter material NOx and Vyon filter disc, reduces nitric oxides to relieve the device sensor, especially for measurements on combined heat and power plants.		●	610204 R	13.70
Accessory kit FG7500/FG7700 NOx/S , 1 quick-change gas processing cartridge FG7500/FG7700, 2 filter inserts FG7500/FG7700 NOx, 2 filter inserts FG7500/FG7700 S		●	610245 R	106.00
Accessory kit leakage testing ≤ 150 hPa/mbar , adapter quick coupling DN 5 to R ½" Ag, single pipe meter cap G 2" IG (for DN 25), connection piece air pump with Schrader valve, ≤ 150 hPa/mbar, manual compressed air pump ≤ 0.4 MPa/4 bar, pressure hose PX/FG, Ø 5 mm. For pressure and leakage testing ≤ 150 hPa/150 mbar and for usefulness testing of gas installations.		●	610128 R	326.00
Accessory kit pressure testing ≤ 0.35 MPa/3.5 bar , electronic pressure sensor ≤ 0.35 MPa/3.5 bar, adapter quick coupling DN 5 to R ½" AG, single pipe meter cap G 2" IG (für DN 25), manual compressed air pump ≤ 0.4 MPa/4 bar. For pressure and leakage testing with compressed air/inert gas ≤ 0.35 MPa/3.5 bar.		●	610130 R	425.00
Accessory kit pressure testing ≤ 2.5 MPa/25 bar , electronic pressure sensor ≤ 2.5 MPa/25 bar, connection piece air pump with Schrader valve, ≤ 0.4 MPa/4 bar, adapter quick coupling DN 5 to R ½" AG, single pipe meter cap G 2" IG (for DN 25), manual compressed air pump ≤ 0.4 MPa/4 bar. For pressure and leakage testing with compressed air/inert gas ≤ 0.4 MPa/4 bar or with water ≤ 2.5 MPa/25 bar.		●	610185 R	735.00
Accessory kit 4-/8-Pascal measurement FG7500/FG7700 , with electronic pressure sensor ≤ 5 hPa/mbar, 2 capillary probes, ID 1 mm, 3 m long, with plug coupling DN 3 (socket), magnet rubber Ø 40 mm. For 4 or 8-Pascal measurement, safety measurements for firing installations in connection with room air extraction systems, e.g. flue hoods, ventilation systems.		●	610324 R	362.00
Power supply/charger 110–240 V, 50–60 Hz, 7.5 W, 5 V, 1.5 A , for mains operation instead of Li-Ion 3.7 V battery, without cable.	●	●	610182 R220	21.20
L-Boxx system case with inserts	●	●	610900 R	149.00
REMS BTLE IR , printer for printing the analysis, measurement and test results as a log, with Bluetooth and IR interface, 1 paper roll, 4 batteries 1.5 V, AA, LR6	●	●	611100 R	309.00
Paper roll BTLE IR , pack of 5	●	●	611137 R	31.00

Product comparison REMS FG4500 C, FG7500 C

Functions/applications	FG4500 C	FG7500 C FG 7500 NO C
Digital flue gas analyser probe with integrated core flow search	–	●
Combustion air temperature -10 – 100°C, reading accuracy 0.1°C	●	●
Flue gas temperature 0 – 600°C, reading accuracy 0.1°C < 100°C or 1.0°C > 100°C	●	●
O ₂ -measurement ≤ 25%	●	●
CO-measurement ≤ 8,000 ppm	●	●
CO-measurement ≤ 8,000 ppm, H ₂ -compensated	–	●
NO-measurement (NO _x) ≤ 2,000 ppm – only REMS FG7500 NO C	–	●
CO-measurement ≤ 30,000 ppm	–	●
Draught measurement	●	●
Pressure measurement ≤ 160 hPa/mbar, reading accuracy 0.1 hPa ≤ 100 hPa or 0.1 hPa > 100 hPa	●	●
CO overload protection	–	●
O ₂ -ring annular clearance measurement – accessory annular clearance probe adapter FG7500 (Art.-No. 610110) necessary	–	■
Input block for soot levels and boiler temperature	●	●
Reference value calculation related to residual O ₂	–	●
Display and printout in ppm, mg/Nm ³ , mg/Nm ³ @O ₂ , mg/kWh@O ₂ , mg/MJ@O ₂	–	●
Dew point calculation, flue gas loss q _A , firing efficiency η of condensing boilers	●	●
Flue gas analysis	●	●
CO room air measurement	●	●
Flue gas analysis 2-stage (min/max values), e.g. measurement of 2-stage boilers (full load/partial load)	–	●
Standard flue gas analysis, including flue gas loss q _A , firing efficiency η	–	●
Flue gas analysis with O ₂ -reference value selection	–	●
Flue gas analysis average value, including flue gas loss q _A , firing efficiency η, adjustable time 0.5 – 15 min	–	●
Fast flue gas analysis, incl. gas temperature TG, draught P _z , O ₂ , toxic gases, without fuel calculation	–	●
Flue gas analysis only gas, O ₂ , toxic gases, without fuel calculation	–	●
Flue gas analysis according to German Federal Immission Protection Ordinance ²⁾ , 3 min average value	–	●
Heating check – heating check accessory kit FG7500/FG7700 (Art.-No. 610126 R) necessary	–	■
Leakage testing system (device self-test)		●
Usefulness testing of gas installations according to DVGW-TRGI 2018 ¹⁾	–	●
Pressure testing with compressed air/inert gas	●	●
Pressure testing with water/liquid	□	□
Leakage/load testing of pipe systems with compressed air/inert gas	–	●
Pressure and leakage testing of pipe systems with water/liquid	–	□
Differential pressure measurement	–	●
4 or 8-Pascal-measurement – accessory kit 4/8-Pascal measurement FG7500/FG7700 (Art.-No. 610324 R) necessary	–	■
Time/pressure diagram for recording the pressure curve	●	●
Triple diagram, simultaneous diagram display of gas temperature TG, carbon monoxide CO, determined carbon monoxide content related to 0 vol% oxygen CO-0	–	●
Download and installation of new firmware versions via PC or laptop	●	●
Connected-functionality via Bluetooth with REMS mCon App (see page 29)	●	●
Connected functionality via USB with REMS PC-Software PC200P (see page 29)	●	●

● Included in the delivery ■ accessory required ○ with additional electronic pressure sensor ≤ 0.35 MPa/3.5 bar or ≤ 2.5 MPa/25 bar possible
□ with additional electronic pressure sensor ≤ 2.5 MPa/25 bar possible – not possible

¹⁾ Technical Rule "DVGW-TRGI 2018, Technical Rules for Gas Installations – DVGW Worksheet G 600" of the German Gas and Water Association (DVGW).
²⁾ Directive (EU) 2015/ 2193 of the European Parliament and Commission – of the 25th of November 2015 – for limiting the emissions of certain pollutants from medium-sized firing installations in the air. German Federal Immission Protection Ordinance "Forty fourth ordinance for imposing the Federal Control of Pollution Act – ordinance on medium-sized firing installations, gas turbine and combustion engine systems" for the implementation of the EU Directive 2025/2193.



Electronic pressure and leakage testing device with Connected functionality

German quality product

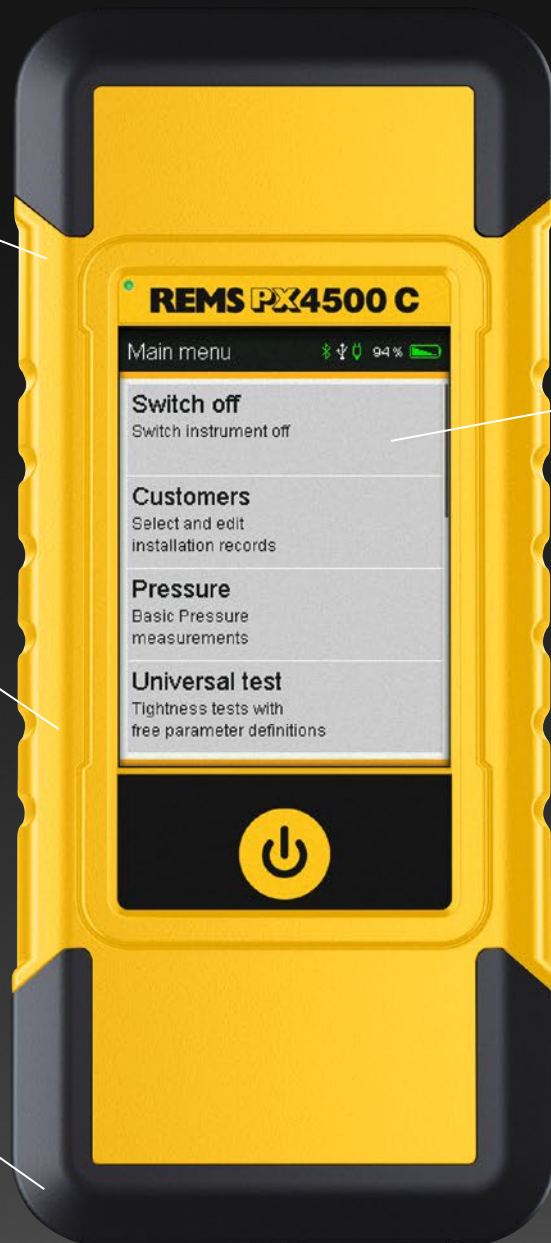


Connected functionality
with Bluetooth or USB

USB-C

Li-Ion battery
for approx. 10 hours
continuous operation

Compact design,
rugged housing



3.5" colour display
with touch function



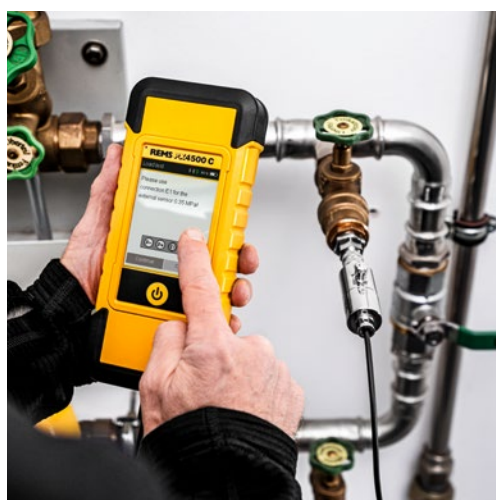
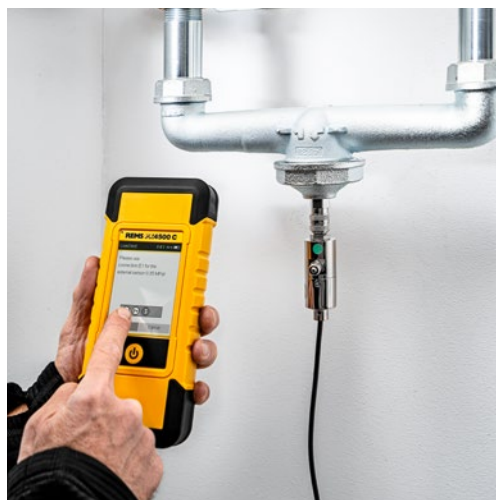
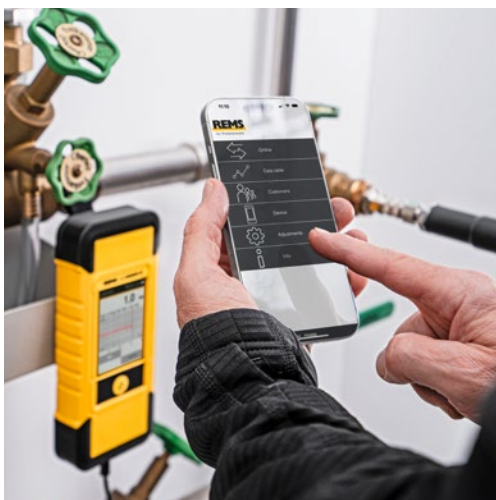
Electronic pressure sensor
 $\leq 2,5$ MPa/25 bar
for pressure testing
with compressed air,
gas, water

Air pump connection piece
with Schrader valve



REMS PX4500 C – compact, handy, light. Universal for pressure and leakages tests.

- Compact, handy electronic pressure and leakage testing device, ultra light, for one-hand operation, measuring instrument weighs only 345 g.
- Sturdy, impact-resistant plastic housing with ergonomically shaped handle.
- Fastening kit, consisting of Velcro tape for easy fastening of the device, e.g. to a pipe or another section, with an eye for hanging up, e.g. on a nail or hook as well as a strong, screw-on magnet.
- Input and control unit with 3.5" colour display with touch function and modern TFT LCD technology, 89 mm screen diagonal, 320 × 240 pixels.
- User-friendly menu guidance takes you step by step through the testing process Easy to understand operating instructions can be displayed at the start of a function on request, supplemented by context-related help and visual feedbacks for support.
- 13 different test programs in 16 languages.
- Li-Ion technology. Measuring instrument with integrated Li-Ion battery 3.7 V, 2.7 Ah Light and powerful. High energy density for approx. 10 hours continuous operation.
- Time/pressure diagram for recording the pressure curve over the complete testing time for easy assessment of the tightness.
- Other functions/applications, see product comparison on page 28.
- Results of the measuring and test programs are saved with date, time and log number in the selected language and can be printed, stored or sent for documentation. Printer with Bluetooth or IR interface for direct log printing, as an accessory.
- Connected functionality with Bluetooth or USB, see page 29.





Info

REMS PX4500 C Set 3,5 bar

Electronic pressure and leakage testing device with Connected functionality via Bluetooth or USB. Test and pressure range ≤ 2.5 MPa/25 bar. Pressure hose PX/FG, $\varnothing$ 5 mm, transparent, 1 m long with bayonet connection (plug), with silicone tubing. Air pump connection piece with Schrader valve, ≤ 150 hPa/mbar, with plug for pressure hose, with quick coupling DN 5 (plug), with Schrader valve. Electronic pressure sensor ≤ 0.35 MPa/3.5 bar with quick coupling DN 5 (plug), with Schrader valve, 1.5 m long connecting lead, with jack plug. Adapter quick coupling DN 5 to R $\frac{1}{2}$ " AG. Single pipe meter cap G 2" IG (for DN 25) with quick coupling DN 5 (socket), with seal. Manual compressed air pump ≤ 0.4 MPa/4 bar, fastening kit, cable USB-C to USB-A, power supply/charger 100–240V, 50–60 Hz, 7.5 W, 5 V, 1.5 A. In L-Boxx system case. Art.-No. 611075 R220G

€ 1,160.⁰⁰



Info

also as **REMS PX4500-I C**
with configuration and
equipment for pressure
tests up to 40 MPa/400 bar



Info

REMS PX4500 C Set 25 bar

Same as REMS PX4500 C Set 3.5 bar, Art.-No. 611075, but instead of electronic pressure sensor ≤ 0.35 MPa/3.5 bar with electronic pressure sensor ≤ 2.5 MPa/25 bar and connection piece air pump with Schrader valve ≤ 0.4 MPa/4 bar. Art.-No. 611080 R220G

€ 1,380.⁰⁰

See pages 26–27 for accessories.

Electronic pressure and leakage testing device with Connected functionality

German quality product



Connected functionality
with Bluetooth or USB

Connection for internal
compressed air pump

Simple usefulness
testing by comparative
leakage method

3.5" colour display
with touch function

24 test programs

Compact design
impact and shock-resistant
housing with soft grip

NiMH battery
for approx. 10 hours
continuous operation

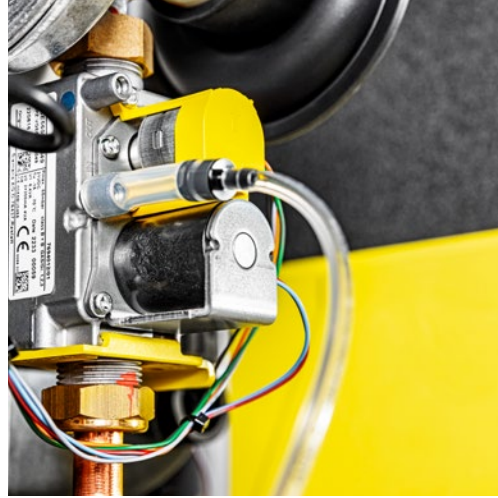
Pressure hose
with silicone tubing
for usefulness testing

REMS P7-TD C



REMS P7-TD C – for common tests in gas and water installation. Ultra stable plastic housing with soft grip. Efficient usefulness testing by comparative leakage method.

- Compact, robust electronic pressure and leakage testing device, handy and light, measuring instrument only 1.1 kg.
- Ultra sturdy, impact-resistant plastic housing with soft grip and ergonomically shaped handle.
- Internal compressed air pump for leakage testing ≤ 150 hPa/mbar. Internal electronic pressure sensor ≤ 0.1 MPa/1 bar.
- Input and control unit with 3.5" colour display with touch function and modern TFT LCD technology, 89 mm screen diagonal, 320 × 240 pixels. User-friendly menu guidance takes you step by step through the testing process. Easy to understand operating instructions supplemented by context-related help can be displayed at the start of a function.
- 24 different test programs in 3 pre-installed and 13 online available languages.
- Measuring instrument with integrated Ni-MH 4.8 V, 2 Ah battery. Light and powerful. High energy density for approx. 10 hours continuous operation.
- Efficient, simple usefulness testing by comparative leakage method, without dismantling the gas meter, without volume determination and without increasing pressure.
- Time/pressure diagram for recording the pressure curve over the complete testing time for easy assessment of the tightness.
- Other functions/applications, see product comparison on page 28.
- Results of the measuring and test programs are saved with date, time and log number in the selected language and can be printed, stored or sent for documentation. Printer with Bluetooth or IR interface for direct log printing, as an accessory.
- Connected functionality with Bluetooth or USB, see page 29.





Info

REMS P7-TD C Set

Electronic pressure and leakage testing device with Connected functionality via Bluetooth or USB. For the usefulness testing of gas installations, for the pressure and leakage testing of pipe systems and vessels ≤ 2.5 MPa/25 bar. With internal compressed air pump ≤ 150 hPa/mbar, internal electronic pressure sensor ≤ 0.1 MPa/1.0 bar. With equipment ≤ 0.1 MPa/1.0 bar. 2 pressure hoses P7, $\varnothing$ 5 mm, transparent, 1 m long, with plug coupling DN 3 (socket) and silicone tubing, compressed air hose P7, ≤ 150 hPa/mbar, $\varnothing$ 6 mm, transparent, 2 m long, with plug coupling DN 3 (socket) and quick coupling DN 5 (plug), compressed air hose P7, $\varnothing$ 6 mm, 2 m long, with quick coupling DN 5 (plug, socket), air pump connection piece with Schrader valve, ≤ 0.4 MPa/4 bar, adapter quick coupling DN 5 to R $\frac{1}{2}$ " AG, manual compressed air pump ≤ 0.4 MPa/4 bar. Power supply/charger 100–240 V, 50–60 Hz, 12 W. Cable Mini-USB to USB-A.

In L-Boxx system case.

Art.-No. 611060 R220G

€ **2,210.⁰⁰**

See pages 26–27 for accessories.

Electronic pressure and leakage testing device with Connected functionality

German quality product



Connected functionality
with Bluetooth or USB

Connection for internal
compressed air pump

4 digital connections
for electronic sensors

Simple usefulness
testing by comparative
leakage method

3.5" colour display
with touch function

37 test programs

Compact design
impact and shock-resistant
housing with soft grip

NiMH battery
for approx. 10 hours
continuous operation

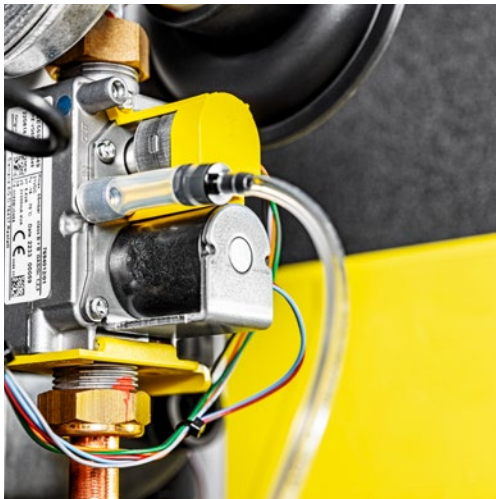
Pressure hose
with silicone tubing
for usefulness testing

REMS P7-TDX C



REMS P7-TDX C – for all common tests in gas, liquid gas and water installation. Ultra stable plastic housing with soft grip. Efficient usefulness testing by comparative leakage method.

- Just one device for pressure and leakage testing with compressed air/inert gas or water, e.g. drinking water installations, radiator and area heating systems, gas and liquid gas installations. For usefulness testing of gas installations, leakage testing of sewage pipes with compressed air, long-term pressure testing ≤ 48 h, testing of pressure controllers. Also for differential pressure testing ≤ 2 MPa/20 bar.
- Compact, robust electronic pressure and leakage testing device, handy and light, measuring instrument only 1.1 kg.
- Ultra sturdy, impact-resistant plastic housing with soft grip and ergonomically shaped handle.
- Internal compressed air pump for leakage testing ≤ 150 hPa/mbar. Internal electronic pressure sensor $\leq 0,35$ MPa/3.5 bar.
- Input and control unit with 3.5" colour display with touch function and modern TFT LCD technology, 89 mm screen diagonal, 320 x 240 pixels.
- User-friendly menu guidance takes you step by step through the testing process Easy to understand operating instructions supplemented by context-related help can be displayed at the start of a function.
- 37 different test programs in 3 pre-installed and 13 online available languages.
- Measuring instrument with integrated Ni-MH 4.8 V, 2 Ah battery. Light and powerful. High energy density for approx. 10 hours continuous operation.
- Efficient, simple usefulness testing by comparative leakage method, without dismantling the gas meter, without volume determination and without increasing pressure.
- Time/pressure diagram for recording the pressure curve over the complete testing time for easy assessment of the tightness.
- Other functions/applications, see product comparison on page 28.
- Results of the measuring and test programs are saved with date, time and log number in the selected language and can be printed, stored or sent for documentation. Printer with Bluetooth or IR interface for direct log printing, as an accessory.
- Connected functionality with Bluetooth or USB, see page 29.





Info

REMS P7-TDX C Set 3,5 bar

Electronic pressure and leakage testing device with Connected functionality via Bluetooth or USB. For the usefulness testing of gas installations, for the pressure and leakage testing of pipe systems and vessels ≤ 2.5 MPa/25 bar. With internal compressed air pump ≤ 150 hPa/mbar, internal electronic pressure sensor ≤ 0.35 MPa/3.5 bar, 2 pressure hoses P7, $\varnothing$ 5 mm, transparent, 1 m long, with plug coupling DN 3 (socket) and silicone tubing, compressed air hose P7, ≤ 150 hPa/mbar, $\varnothing$ 6 mm, transparent, 2 m long, with plug coupling DN 3 (socket) and quick coupling DN 5 (plug), compressed air hose P7, $\varnothing$ 6 mm, 2 m long, with quick coupling DN 5 (plug, socket), air pump connection piece with Schrader valve, ≤ 0.4 MPa/4 bar, adapter quick coupling DN 5 to R $\frac{1}{2}$ " AG, manual compressed air pump ≤ 0.4 MPa/4 bar. Power supply/charger 100–240V, 50–60 Hz, 12 W. Cable Mini-USB to USB-A. In L-Boxx system case.

Art.-No. 611065 R220G

€ 2,430.⁰⁰



Info

REMS P7-TDX C Set 25 bar

Same as REMS P7-TDX C Set 3.5 bar, Art.-No. 611065, but additionally with electronic pressure sensor ≤ 2.5 MPa/25 bar.
Art.-No. 611070 R220G € 2,740.00

€ 2,210.⁰⁰

See pages 26–27 for accessories.

Accessories REMS PX4500 C, P7-TD C and P7-TDX C



Description	PX4500 C	P7-TD C	P7-TDX C	Art.-No.	€
Pressure hose PX/FG, Ø 5 mm , transparent, 1 m long, with bayonet connection (plug), with silicone tubing, for measuring gas and flow pressure, for leakage testing with compressed air and gas ≤ 150 hPa/mbar (connection piece air pump with Schrader valve ≤ 150 hPa/mbar, Art.-No. 611123 R, necessary)	●			610106 R	21.20
Pressure hose P7, Ø 5 mm , transparent, 1 m long, with plug coupling DN 3 (socket) and silicone tubing, for measuring gas and flow pressure or for usefulness testing		●	●	610105 R	21.20
Compressed air hose P7, ≤ 150 hPa/mbar, Ø 6 mm , transparent, 2 m long, with plug coupling DN 3 (socket), with quick coupling DN 5 (plug), for leakage testing with compressed air/inert gas ≤ 150 hPa/mbar		●	●	611120 R	29.70
Compressed air hose P7, Ø 6 mm , 2 m long, with quick coupling DN 5 (plug, socket), for pressure testing with compressed air/inert gas ≤ 0.35 MPa/3.5 bar		●	●	611121 R	93.60
Connection piece air pump with Schrader valve, ≤ 150 hPa/mbar , with plug for pressure hose, with quick coupling DN 5 (plug), with Schrader valve for connecting air pump/compressor, for leakage testing with compressed air/inert gas ≤ 150 hPa/mbar. For connecting compressed air hose with silicone tubing and adapter quick coupling DN 5 to R ½" AG or single pipe meter cap.	●	●	●	611123 R	49.10
Connection piece air pump with Schrader valve, ≤ 0.4 hPa/ 4bar , with quick coupling DN 5 (plug, socket), with Schrader valve for connecting air pump/compressor, for pressure testing with compressed air/inert gas ≤ 0.4 hPa/4.0 bar. For connecting compressed air hose P7, Ø 6 mm or electronic pressure sensor ≤ 2.5 MPa/25 bar and adapter quick coupling DN 5 to R ½" AG or single pipe meter cap	●	●	●	611117 R	73.00
Adapter quick coupling DN 5 to G ½" AG , with O-ring for connecting to the gas installation with connection G ½" IG. For connecting compressed air hose with quick coupling DN 5 (plug), electronic pressure sensor ≤ 0.35 MPa/3.5 bar or ≤ 2.5 MPa/25 bar or connection piece air pump with Schrader valve.	●	●	●	611127 R	47.00
Adapter quick coupling DN 5 to R ½" AG , for connecting to the pipe system with connection G ½" IG. For connecting compressed air hose with quick coupling DN 5 (plug), electronic pressure sensor ≤ 0.35 MPa/3.5 bar or ≤ 2.5 MPa/25 bar or connection piece air pump with Schrader valve.	●	●	●	611116 R	60.80
Single pipe meter cap G 2" IG (for DN 25) with quick coupling DN 5 (socket) for connecting to the gas installation with connection G 2" AG. For connecting compressed air hose with quick coupling DN 5 (plug), electronic pressure sensor ≤ 0.35 MPa/3.5 bar or ≤ 2.5 MPa/25 bar or connection piece air pump with Schrader valve.	●	●	●	611124 R	129.00
Single pipe meter cap G 2 ¾" IG (for DN 40) , with quick coupling DN 5 (socket), with seal, for connecting to the gas installation with connection G 2 ¾" AG. For connecting compressed air hose with quick coupling DN 5 (plug), electronic pressure sensor ≤ 0.35 MPa/3.5 bar or ≤ 2.5 MPa/25 bar or connection piece air pump with Schrader valve.	●	●	●	611133 R	170.00

Accessories REMS PX4500 C, P7-TD C and P7-TDX C



Description	PX4500 C	P7-TD C	P7-TDX C	Art.-No.	€
Gas meter connection piece Y DN 20 , meter DN 25, nozzle ¾" (connecting thread G 1" AG), nozzle distance 250 mm, 2 seals DN 20	●	●	●	611140 R	170.00
Gas meter connection piece Y DN 25 , meter DN 25, nozzle 1" (connecting thread G 1 ¼" AG), nozzle distance 250 mm, 2 seals DN 25	●	●	●	611129 R	170.00
Gas meter connection piece Y DN 32 , meter DN 25, nozzle 1 ¼" (connecting thread G 1 ¾" AG), nozzle distance 250 mm, 2 seals DN 32	●	●	●	611143 R	198.00
Seal gas meter connection piece DN 20 , pack of 2	●	●	●	611141 R	7.00
Seal gas meter connection piece DN 25 , pack of 2	●	●	●	611142 R	7.00
Seal gas meter connection piece DN 32 , pack of 2	●	●	●	611144 R	6.70
Electronic pressure sensor ≤0.35 MPa/3.5 bar with quick coupling DN 5 (plug), with Schrader valve for connecting air pump/compressor, connecting lead 1.5 m long with jack, for pressure and leakage testing with compressed air/inert gas ≤0.35 MPa/3.5 bar. For connecting adapter quick coupling DN 5 to R ½" AG or single pipe meter cap.	●	●	●	611125 R	198.00
Electronic pressure sensor ≤2.5 Mpa/25 bar with quick coupling DN 5 (plug), connecting lead 1.5 m long, with jack, for pressure and leakage testing with compressed air/inert gas ≤0.4 MPa/4 bar or with liquid ≤2.5 MPa/25 bar. For connecting adapter quick coupling DN 5 to R ½" Ag, connection piece air pump with Schrader valve, ≤0.4 MPa/4 bar or single pipe meter cap.	●	●	●	611119 R	485.00
Pipe temperature sensor with connecting lead 1.5 m long, with jack, 6 fastening bands. For continuous temperature monitoring during long-term pressure testing.			●	611134 R	240.00
Manual compressed air pump ≤0.4 MPa/4 bar , compact design, double sealed for fast, accurate pressure build-up ≤0.4 MPa/4 bar, with connection for Schrader valve. Valve relief for removing the pump connection without pressure loss. Also suitable for building up very low pressures ≤150 hPa/mbar	●	●	●	611118 R	92.50
REMS BTLE IR , printer for printing the analysis, measurement and test results as a log, with Bluetooth and IR interface, 1 paper roll, 4 batteries 1.5 V, AA, LR6	●	●	●	611100 R	309.00
Paper roll BTLE IR , pack of 5	●	●	●	611137 R	31.00
Fastening kit , consisting of Velcro tape for easy fastening of the device, e.g. to a pipe or another section, with an eye for hanging up, e.g. on a nail or hook as well as a strong, screw-on magnet.	●			611206 R	35.00
Power supply/charger 110–240 V, 50–60 Hz, 7.5 W, 5 V, 1.5 A , for mains operation instead of Li-Ion 3.7 V battery, without cable	●			610182 R220	21.20
Power supply/charger 100–240 V, 50–60 Hz, 12 W, 12 V, 1.0 A , for mains operation instead of Li-Ion 4.8 V battery, with cable		●	●	611146 R220	36.30
L-Boxx system case with inserts	●			610900 R	149.00
L-Boxx system case with inserts		●	●	610902 R	149.00

Product comparison REMS PX4500 C, P7-TD C, P7-TDX C, FG7500 C

Functions/applications		PX4500 C		P7-TD C	P7-TDX C	
Art.-No.		611075	611080	611060	611065	611070
Internal compressed air pump for pressure and leakage testing with compressed air	≤ 150 hPa/mbar	–	–	●	●	●
Leakage testing of gas installations with compressed air according to Worksheet DVGW-TRGI 2018 ^{1, 7)}		●	●	●	●	●
Load testing of gas installations with compressed air according to DVGW-TRGI 2018 ¹⁾		●	●	●	●	●
Usefulness testing of gas installations according to DVGW-TRGI 2018 – DVGW-certified ^{1) 2)}		–	–	●	●	●
Usefulness testing of gas installations – leakage quantity – pre-testing		–	–	–	●	●
Usefulness testing of gas installations – volume > 300 l		–	–	–	●	●
Leakage testing of liquid gas installations with compressed air according to DVGW-TRGI 2021 ³⁾		●	●	–	●	●
Strength testing of liquid gas installations with compressed air according to DVGW-TRF 2021 ³⁾		●	●	–	●	●
Leakage testing of drinking water installation with compressed air according to ZVSHK information leaflet ⁴⁾		●	●	●	●	●
Load testing of drinking water installation with compressed air according to ZVSHK information leaflet ⁴⁾		●	●	○	●	●
Leakage testing of other pipe systems with compressed air/inert gas	≤ 150 hPa/mbar	●	●	●	●	●
Load testing of other pipe systems with compressed air/inert gas	≤ 0.1 MPa/1 bar	●	●	●	●	●
	≤ 0.3 MPa/3 bar	●	●	○	●	●
	≤ 0.4 MPa/4 bar	□	●	□	□	●
Pressure testing with compressed air/inert gas	≤ 1 hPa/mbar	–	–	●	●	●
	≤ 150 hPa/ mbar	●	●	●	●	●
	≤ 0.1 MPa/ 1 bar	●	●	●	●	●
	≤ 0.35 MPa/3.5 bar	●	●	○	●	●
	≤ 0.4 MPa/4 bar	□	●	□	□	●
Pressure testing of drinking water installations with water in accordance with EN 806-4/ 2010 Test method A modified according to ZVSHK information leaflet ⁴⁾		□	●	□	□	●
Pressure testing of drinking water installations with water in accordance with EN 806-4/ 2010 Test method B modified according to ZVSHK information leaflet ⁴⁾		□	●	□	□	●
Pressure testing of drinking water installations with water, press fitting connections (unpressed leaking) according to the ZVSHK information leaflet ⁴⁾		□	●	□	□	●
Pressure and leakage testing of other pipe systems with water/liquid	≤ 2.5 MPa/25 bar	□	●	□	□	●
Pressure testing with water/liquid	≤ 2.5 MPa/25 bar	□	●	□	□	●
Leakage testing of sewage pipes with compressed air according to EN 1610 and DIN 1986-30 ⁵⁾		–	–	–	●	●
Differential pressure measurement	≤ 150 hPa/mbar	●	●	●	●	●
	≤ 0.35 MPa/3.5 bar	–	–	–	○	○
	≤ 2.0 MPa/20 bar	–	–	–	□	□
Testing of pressure controllers		–	–	–	●	●
Pressure monitor for recording pressure fluctuations, with long-term measurement ≤ 48 h	< 0.35 MPa/3.5 bar	–	–	–	●	●
	< 2.5 MPa/25 bar	–	–	–	○	●
Time/pressure diagram for recording the pressure curve		●	●	●	●	●
Connection possibility for pipe temperature sensor		–	–	–	●	●
Download and installation of new firmware versions via PC or laptop		●	●	●	●	●
Connected-functionality via Bluetooth with REMS mCon App (see page 29)		●	●	●	●	●
Connected functionality via USB with REMS PC-Software PC200P (see page 29)		●	●	●	●	●

● Included in the delivery □ with additional electronic pressure sensor ≤ 2.5 MPa/25 bar possible
○ with additional electronic pressure sensor ≤ 0.35 MPa/3.5 bar or ≤ 2.5 MPa/25 bar possible – not possible

¹⁾ In accordance with Technical Rule "DVGW-TRGI 2018, Technical Rules for Gas Installations – DVGW Worksheet G 600" of the German Gas and Water Association (DVGW)

²⁾ Certified according to DVGW G 5952

³⁾ In accordance with the Technical Rule "DVGW-TRF 2021, Technical Rules Liquid Gas" of the German Gas and Water Association (DVGW) (DVGW-TRF 2021)

⁴⁾ In accordance with information leaflet "Leak testing of drinking water installations with compressed air, inert gas or water" (January 2017) of the Central Association for Sanitary, Heating and Air Conditioning (ZVSHK), Germany

⁵⁾ In accordance with EN 1610:2015-12 "Construction and testing of drains and sewers" and DIN 1986-30:2012-02 "Drainage systems on private ground – Part 30: Maintenance"

Connected functionality via Bluetooth with REMS mCon App

The REMS exhaust gas measuring instruments, pressure and leakage testing instruments send data to the REMS mCon App via an existing Bluetooth connection. The following functions, among others, are available on the connected mobile terminating unit (Smart phone, tablet):

- Device information transferred from the measuring instrument to the mCon app (device type, serial number, number of measurements, number of customers, number of testers)
- Save measurement and test data with customer specification in the measuring instrument and transfer from the measuring instrument to the mCon app
- Create measurement/test logs with your own company logo, individual corporate name and with specification of the tester as a PDF and send with any apps Send by e-mail with individual texting
- Send selected measurement/test data as data (*.mBin) to the cloud or send by e-mail with individual texting for further processing with REMS PC-Software PC200P.
- Create tester data
- Import customer from contacts of the mobile terminating device or from the cloud or create manually and send to the measuring instrument
- Mobile terminating device for remote display of the time-pressure diagram of a measurement.



Free application software from the Apple App Store
or Android App at Google Play.



Connected functionality via USB with REMS PC-Software PC200P

With an existing USB connection, the following functions are available with the REMS PC200P PC software:

- Transfer device information from the measuring instrument to the PC (device type, serial number, firmware version, number of fuels, number of testers, number of customers, number of measurements)
- Save measurement and test data in the measuring instrument and transfer from the measuring instrument to the PC
- Create tester data on the PC and transfer all or selected tester data from the PC to the measuring instrument
- Create tester data in the measuring instrument and transfer from the measuring instrument to the PC
- Print measurement/test logs with your own company logo, individual corporate name and with specification of the tester, create as a pdf/jpg or export data
- Create customer on the PC and transfer to the measuring instrument
- Creation of individual check lists and transmission to the measuring instrument
- Synchronise time of the PC with time of the measuring instrument
- Delete data memory of the measuring instrument
- Data import of data with cloud data file type (*.mBin) or XML-file

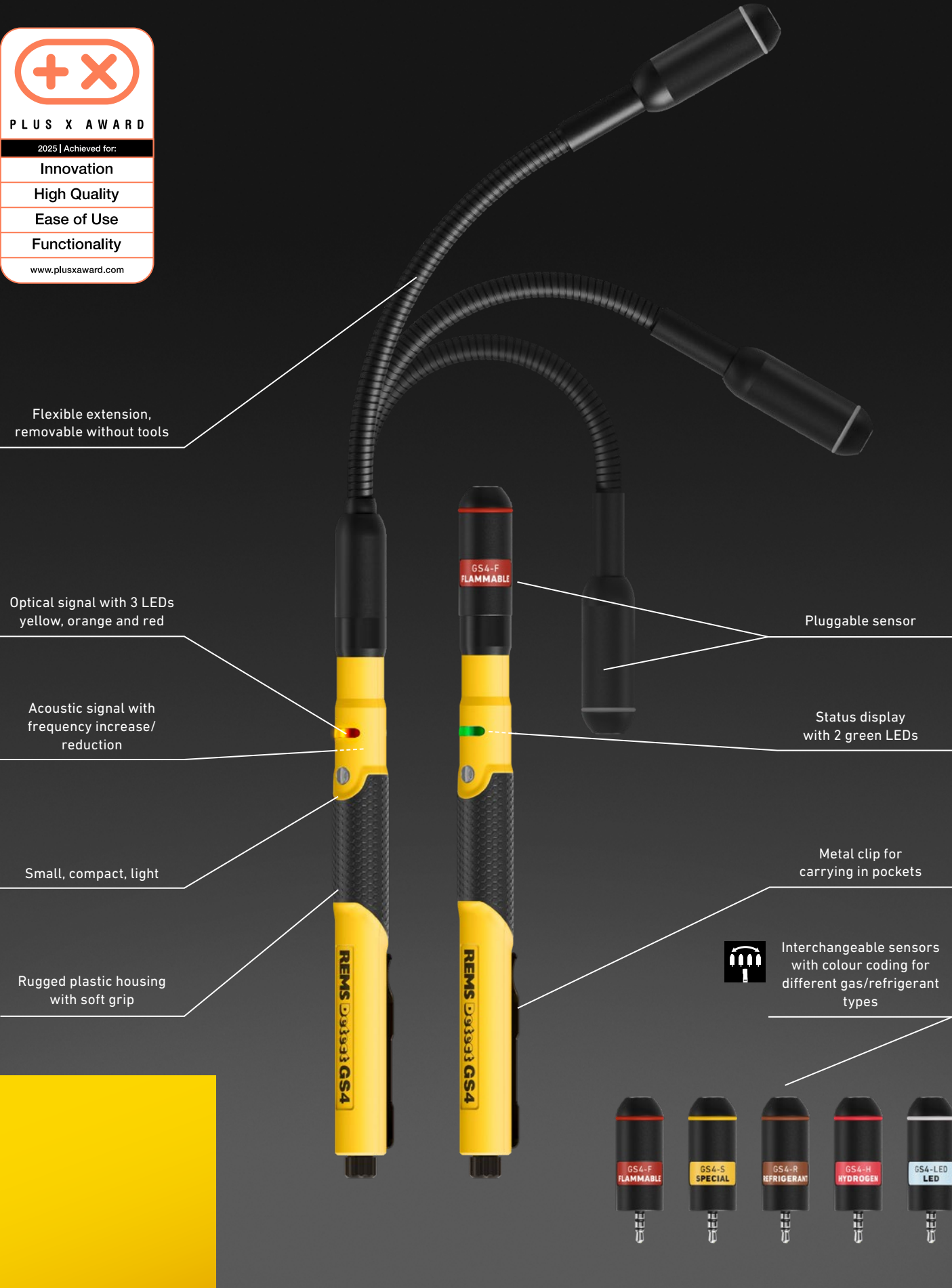


The REMS PC200P PC software is available free of charge:
www.rems.de > Downloads > Software



Electronic leakage detector with quick-change gas sensors

German quality product



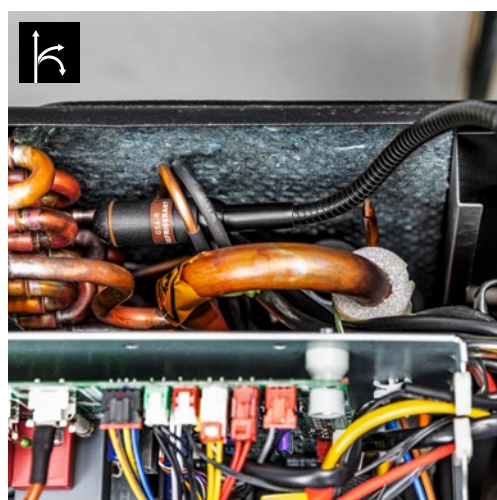
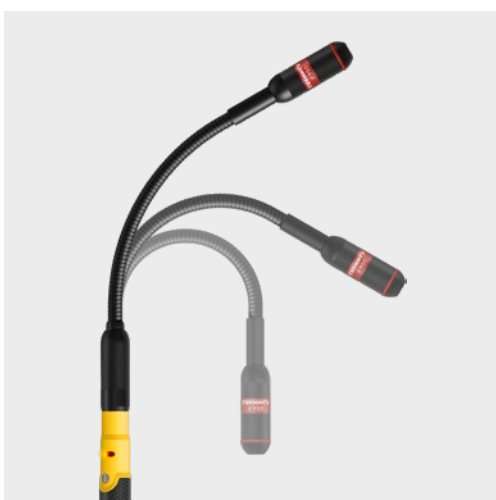
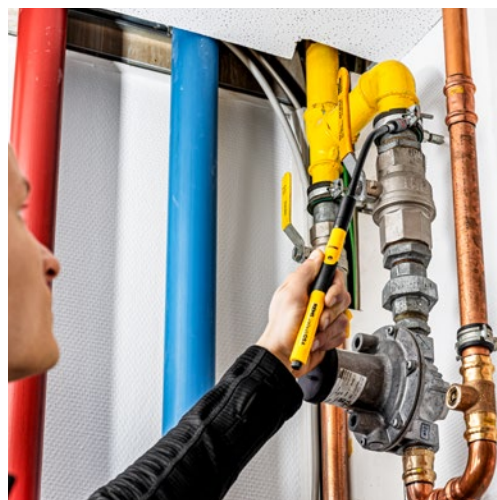
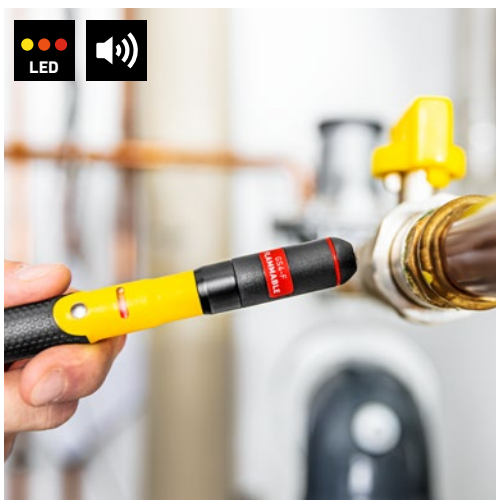
Interchangeable sensors with colour coding for different gas/refrigerant types



REMS Detect GS4 – reliable detection of gas and refrigerant leakages. Ultra small. Ultra light. Ultra compact. 4 quick-change gas sensors with colour coding, easy pluggable. With optical and acoustic signalling of changes in the gas concentration.

- Universally usable for early detection of gas leaks in technical installations, pipelines, air-conditioning systems, cooling systems, vehicles, etc. and for leakage testing in accordance with the F-Gas directive (EU) 2024/573.
- Just one electronic leakage detector with quick-change gas sensors for reliable detection of different gases and refrigerants. Quick-change attachment GS4-LED as a practical LED lamp.
- Ultra small, ultra light. Leakage detector with quick-change gas sensor only 214 mm long, weighs just 78 g. Universally usable even in places with difficult access.
- Strong, impact-resistant plastic housing with soft grip.
- Flexible extension 200 mm with plug/screw connection, can be fitted without tools.
- Button for switching on and off as well as for manual setting of a new reference value (zero point) for subsequent measurements. This new reference value is readapted to the ambient value in the course of time when the target gas concentration is reduced..
- After switching on and with a gas sensor plugged, REMS Detect GS4 starts the run-in phase automatically.
- The two LEDs flash alternately during the run-in phase, both LEDs light steadily in the measuring mode and an intermittent signal tone is emitted additionally. As the gas concentration increases, e.g. when approaching a leakage, the frequency of the signal tone increases and a yellow, orange or red LED lights in stages as an optical signal, the red LED flashes at a very high gas concentration.
- Inflammable gases: Butane (C₄H₁₀), Methane (CH₄), Propane (C₃H₈), Hydrogen (H₂), Ammonia (NH₃)
Refrigerants: R-22, R-32, R-134a, R-152a, R-290, R-404a, R-407c, R-410a, R-507a, R-600a, R-1234yf. With plug connection for toolless changing, directly pluggable to the leakage detector or flexible extension 200 mm.
- Quick-change gas sensor GS4-R for leakage testing in accordance with the F-Gas directive (EU) 2024/573, meets the specifications of EN 14624:2020.

Detection limits ppm	
Butane (C ₄ H ₁₀)	100 ppm
Methane (CH ₄)	50 ppm
Propane (C ₃ H ₈)	50 ppm
Hydrogen (H ₂)	30 ppm
Ammonia (NH ₃)	1 ppm
Detection limits g/year in accordance with EN 14624:202	
Hydrocarbons (HC), R-290, R-600a	1 g/year static 1 g/year dynamic
Hydrofluorocarbons (HFC)/Hydrochlorofluorocarbons (HCFC), R-22, R-32, R-134a, R-152a, R-404a, R-407c, R-410a, R-507	2 g/year static 2 g/year dynamic
Hydrofluorolefins (HFO), R-1234yf	2 g/year static 3 g/year dynamic





Info

REMS Detect GS4 Set F

Electronic leakage detector with quick-change gas sensors for reliable detection of different gases and refrigerants. Flexible extension 200 mm, quick-change gas sensor GS4-F for inflammable gases butane (C_4H_{10}), methane (CH_4), propane (C_3H_8), hydrogen (H_2), 2 batteries 1.5 V, AAA, LR3. In a strong soft bag.

Art.-No. 611095 R € 339.00

€ **275.00**



Info

REMS Detect GS4 Set R

Electronic leakage detector with quick-change gas sensor for reliable detection of different gases and refrigerants. Flexible extension 200 mm, quick-change gas sensor GS4-R for refrigerants R-22, R-32, R-134a, R-152a, R-290, R-404a, R-407c, R-410a, R-507a, R-600a, R-1234yf, for leakage testing in accordance with the F-Gas directive (EU) 2024/573, meets the specifications of EN 14624:2020. In a strong soft bag.

Art.-No. 611096 R € 339.00

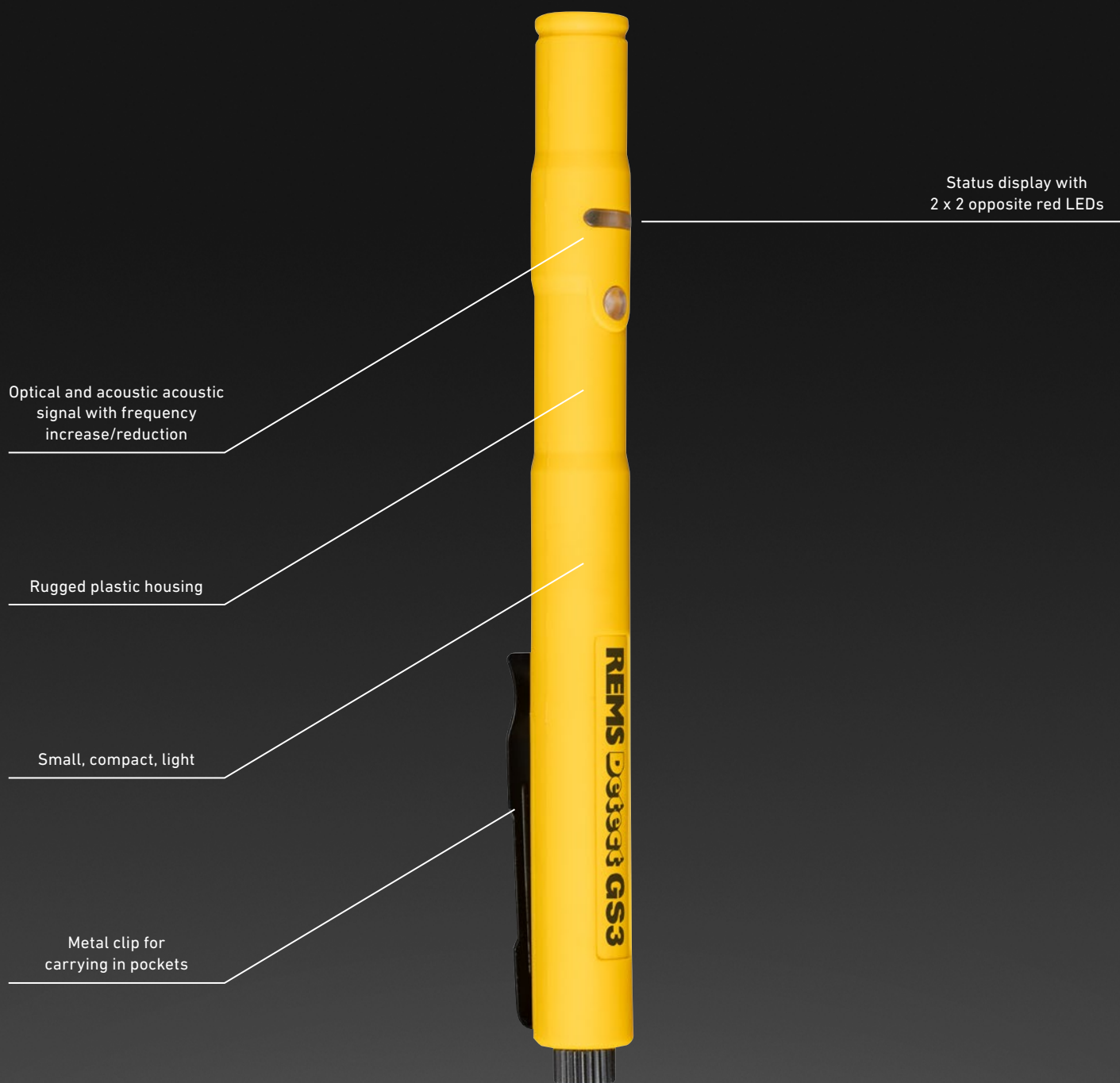
€ **275.00**

Accessories REMS Detect GS4

Description	Art.-No.	€
Quick-change gas sensor GS4-F for inflammable gases butane (C_4H_{10}), methane (CH_4), propane (C_3H_8), hydrogen (H_2).	611310 R	101.90
Quick-change gas sensor GS4-R for refrigerants R-22, R-32, R-134a, R-152a, R-290, R-404a, R-407c, R-410a, R-507a, R-600a, R-1234yf, for leakage testing in accordance with the F-Gas directive (EU) 2024/573, meets the specifications of EN 14624:2020.	611312 R	101.90
Quick-change gas sensor GS4-S for ammonia (NH_3)	611311 R	101.90
Quick-change gas sensor GS4-H , specially for hydrogen (H_2), no cross-sensitivity with other inflammable gases	611313 R	109.00
Quick-change attachment GS4-LED , LED lamp for universal use, also especially for illuminating places with difficult access	611314 R	54.10
Flexible extension 200 mm	611213 R	80.80
Soft bag for REMS Detect GS4, flexible extension 200 mm, 7 quick-change gas sensors/attachments	611212 R	26.30

Electronic leakage detector

German quality product



REMS Detect GS3 – the economic solution for detection of inflammable gases. Ultra small. Ultra light. Ultra compact. With optical and acoustic signalling of changes in the gas concentration.

- For early detection of gas leaks in technical installations, pipelines, vehicles, etc.
- Ultra small, ultra light. Leakage detector only 170 mm long, weighs just 56 g. Universally usable even in places with difficult access.
- Strong, impact-resistant plastic housing.
- Button for switching on and off as well as for manual setting of a new reference value (zero point) for subsequent measurements. This new reference value is readapted to the ambient value in the course of time when the target gas concentration is reduced.
- After switching on, REMS Detect GS3 starts the run-in phase automatically and the red LEDs on both sides flash alternately.
- In the measuring mode, the red LEDs flash simultaneously and an intermittent signal tone is emitted additionally. As the gas concentration increases, e.g. when approaching a leakage, the frequency of the flashing LEDs and the signal tone increases..

Detection limits ppm	
Butane (C ₄ H ₁₀)	100 ppm
Methane (CH ₄)	50 ppm
Propane (C ₃ H ₈)	50 ppm
Hydrogen (H ₂)	100 ppm



Info



REMS Detect GS3 Set

Electronic leakage detector for reliable detection of inflammable gases, 2 batteries 1.5V, AAA, LR3. In a belt case.

Art.-No. 611003 R € 212.00

€ **195.00**



Excellent Service

Sales and consulting will be handled by a Europe-wide network of trade partners, supported by the REMS sales organisations with more than 200 well-trained field consultants. They are happy to be at your service, flexibly and at short notice, for training courses and product presentations directly on site.

Our own company service workshops in Waiblingen and Hagen as well as a widely developed network of contract customer service workshops offer excellent service.

Our own company workshops offer particularly fast and reliable inspections or repairs of your instruments. Thanks to the constant availability of all spare parts and our qualified, specialized personnel, we can guarantee you efficient and professional service which will reduce downtimes to a minimum.

You can order inspections and repairs conveniently through our Service Portal and make use of our Germany-wide collection service.

Further information: www.rems.de > Service > Service depots



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