

Testing and leak detection

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Testing and leak detection

System overview

Precision testing pumps manual

RP 50-S / RP 50-S INOX



TP 25



RP 30



Testing and pressure range:	0 - 60 bar	0 - 25 bar	0 - 30 bar
Hub suction capacity:	45 ml / stroke	16 ml / stroke	16 ml / stroke
Tank capacity:	12 l	7 l	4.5 l
Connection:	R1/2"	R1/2"	R1/2"
Dimension:	495 x 165 x 255 mm	380 x 215 x 156 mm	440 x 200 x 240 mm
Weight:	8 kg	4.6 kg	4.5 kg
Material:	DURAMANT coated steel	DURAMANT coated steel	ABS plastic
Valve:	Twin-valve	Twin-valve	–
Pressure gauge units:	bar, psi, Mpa	bar, psi	bar, psi
Suitable for:	Oil, water and glycol	Oil, water and glycol	Oil, water and glycol

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Testing pumps electric

RP PRO III



Analogue / digital testing device for gas and water connections

ROTEST GW 150/4



ROTEST GW Digital V3



Testing and pressure range:	0 - 40 bar	Pressure range:	0 - 180 mbar	0 - 1,000 mbar
Flow rate:	6 l / min.	Low pressure sensor	(resolution 0.1 mbar)	(resolution 0.1 mbar)
Tank capacity:	–	Pressure range:	0 - 4 bar	0 - 20 bar
Connection:	R1/2"	High pressure sensor	(resolution 0.1 bar)	(resolution 0.01 bar)
Dimensions:	375 x 290 x 300 mm	Leak rate measurement:	–	0 - 12 L/h
Weight:	16 kg	Display resolution:	–	480 x 272
Material:	ABS plastic	Data transfer:	–	WLAN, USB
Valve:	Single valve	Battery life time:	–	Approx. 8 h testing time
Pressure gauge units:	bar, psi, Mpa	Safety class:	–	IP40
Gauge characteristics:	Glycerine cushioned	Weight:	7.3 kg	5.25 kg
Suitable for:	Oil, water and glycol			

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RP 50-S / RP 50-S INOX

Robust precision testing pump for pressure testing of water lines and containers up to 60 bar with very high testing standards

Adjustment of the pressure gauge with 0.1 bar scaling is possible!



Product profile

APPLICATION AREA

Pressure testing with water or oil of piping in residential and industrial construction, as well as for industrial containers (up to 60 bar). Expansion possible with an extra fine scaling pressure gauge (0.1 bar) for testing up to 16 bars

KEY FEATURES

- A drag indicator displays the preset pressure so that a loss of pressure in the system can be detected easier
- Reliable and precise testing results: the dual-valve system (Twin Valve) enables self-testing of the pump as well as a precise fine adjustment of the pressure
- Especially precise reading as needed: finely scaled (scaling 0.1 bar) pressure gauge available separately
- Testing hose with steel mesh prevents reading mistakes, that can happen when the hose expands during operation
- Type 50-S: Weather and cold-resistant steel container with DURAMANT coating
- Type 50-S INOX: high-quality corrosion resistant stainless steel tank

TECHNICAL DATA

Testing and pressure range: 0 - 60 bar, with 1 bar steps
0 - 860 psi, with 20 psi steps
0 - 6 MPa, with 0.1 MPa steps

Hub suction capacity: approx. 45 ml / stroke

Tank capacity: 12 l

Dimensions (L x W x H): 495 x 165 x 255 mm

Connection: R 1/2"

Container RP 50-S: Steel, DURAMANT coated

Container RP 50-S INOX: Stainless steel

Warp-resistant and lockable lever

Ergonomic handle serves as carrying grip too

Additional pressure gauge with fine scaling 0.1 bar optional

Enables very precise readings up to a range of 16 bar (No. 61316)

Testing hose with steel mesh

Precise measurement

Weather and cold-resistant container

5 year rust-free guarantee - DURAMANT coated

INOX



No. 60203



No. 60200

Double valve system: enables self-testing of the pump, as well as a precise fine adjustment of the pressure

Optional: Extra fine scaling Pressure gauge for the testing of systems up to 16 bar with a 0.1 scaling



Model	kg		No.
RP 50-S testing pump	8	1	60200
RP 50-S INOX (stainless steel) testing pump	8	1	60203

ACCESSORIES

Model	g	No.	Model	g	No.
Maintenance package	100	60201	High pressure hose with 1/4" connection	490	R6112500
Double nipple 1/2" to 3/4"	100	60999	Extra 16 bar pressure gauge	100	61316

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Testing and leak detection

Testing of water lines and containers

RP PRO III

Self-priming electric testing pump up to 40 bar



Product profile

APPLICATION AREA

Electrical testing pump for the automatic pressure testing of piping and containers up to 40 bar in accordance with national and international standards

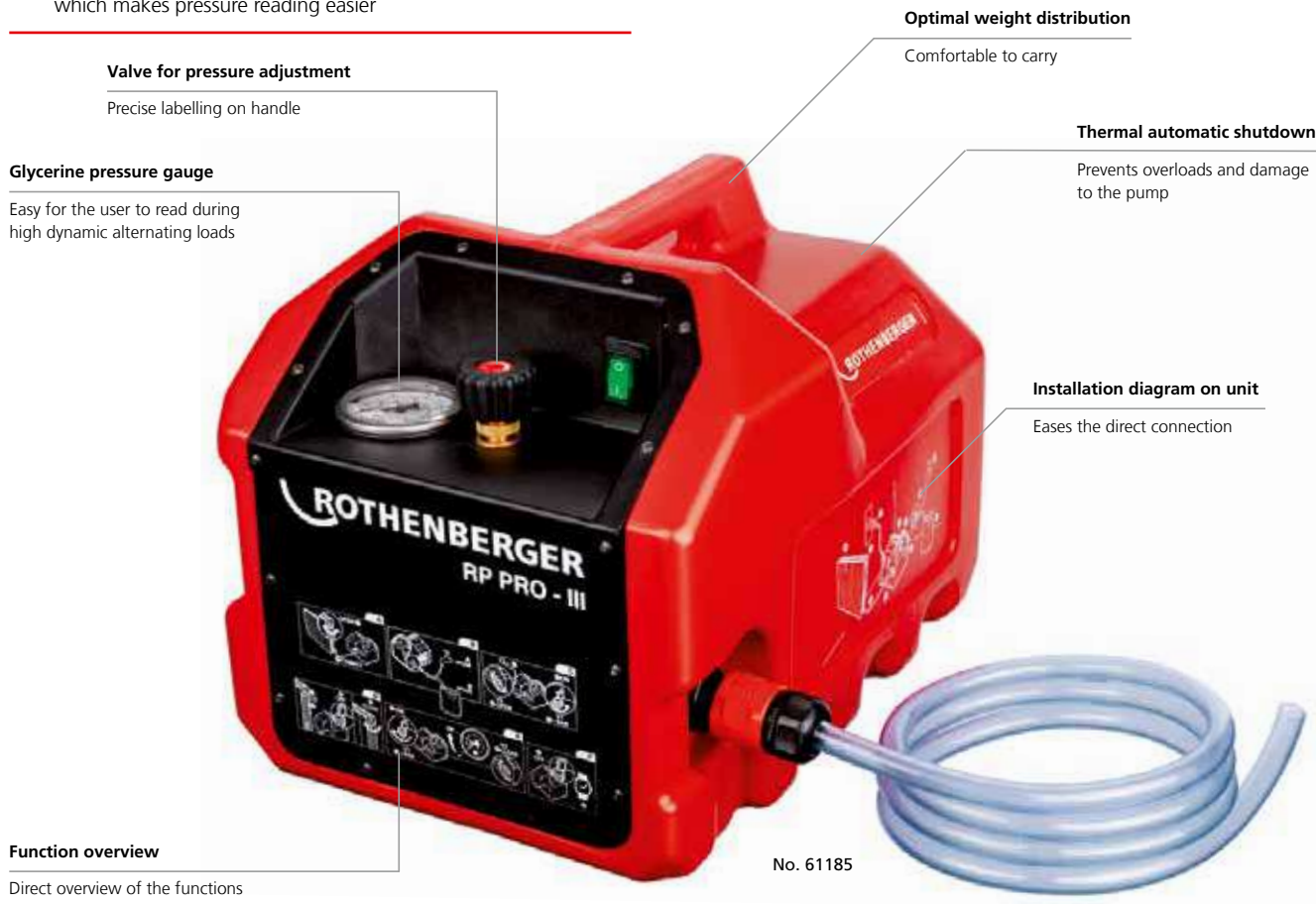
KEY FEATURES

- Comfortable, automatic filling and pressure testing of piping and containers
- Compact and robust plastic casing for simple handling at the building site
- Liquid supply freely selectable: optional self-priming up to a maximum of 1 m or from a pressure source. Suitable for oil, water and glycol
- Testing hose with steel mesh prevents reading mistakes, that can happen when the hose expands during operation
- Glycerine cushioned pressure gauge absorbs pressure surges which makes pressure reading easier

TECHNICAL DATA

Testing and pressure range:	0 - 40 bar, with 1 bar steps 0 - 570 psi, with 20 psi steps 0 - 0.1 MPa steps
Flow Rate:	max. 6 l / min
Dimensions (L x W x H):	375 x 290 x 300 mm
Connection:	R 1/2"
Mains voltage:	220 - 240 V / 50 HZ and 110 V / 50 - 60 HZ
Performance:	1.3 kW
Container:	ABS-plastic

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Model	kg	110 V	220 V
Testing pump RP PRO III self-priming with power cable, high-pressure hose and 1/2" connection, filling hose	16.0	V12110016	61185
Filling hose with adaptor	0.5		61001
Testing hose with R 1/2" connection	0.4	V12102000	
Maintenance package RP PRO III in scope of delivery			61186

Testing and leak detection

Testing of water lines and containers

TP 25

Small, robust precision testing pump for pressure testing up to 25 bar



Product profile

APPLICATION AREA

Pressure testing with water or oil of piping in residential and industrial construction as well as for industrial containers up to 25 bar in accordance with international and national standards

KEY FEATURES

- Reliable and precise testing results: the dual-valve system (Twin Valve) enables self-testing of the pump, as well as a precise fine adjustment of the pressure
- Testing hose with steel mesh prevents reading mistakes, that can happen when the hose expands during operation
- Weather and cold-resistant steel container with DURAMANT coating

TECHNICAL DATA

Testing and pressure range: 0 - 25 bar
Hub suction capacity: approx. 16 ml / stroke
Dimensions (L x W x H): 380 x 215 x 156 mm
Connection: R 1/2"
Container: Steel, DURAMANT coated



For the daily work on site



Model	Pressure range	kg		No.
Testing pump TP 25	up to 25 bar	4.6	1	60250
Maintenance package TP 25				60251

RP 30

Simple and light testing pump for compression testing up to 30 bar



Product profile

APPLICATION AREA

Pressure testing with water or oil of piping in residential and industrial construction as well as for industrial containers up to 30 bar in accordance with international and national standards

KEY FEATURES

- Testing hose with steel mesh prevents reading mistakes, that can happen when the hose expands during operation
- Shock and corrosion resistant ABS plastic container with reinforced floor

TECHNICAL DATA

Testing and pressure range: 0 - 30 bar, with 1-bar steps
 0 - 440 psi, with 20 PSI steps
Hub suction capacity: 16 ml / stroke
Dimensions (L x W x H): 440 x 200 x 240 mm
Connection: R 1/2"
Container: ABS-plastic



Easy, light and handy: for all common house building applications



Model	Pressure range	kg		No.
Testing pump RP 30	up to 30 bar	4.5	1	61130
High pressure hose with 1/4" connection	0.4			R6112500

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Testing and leak detection

Testing of gas and water lines

ROTEST GW Digital V3

Leakage testing system for gas and water lines with large 4.3" touchscreen display for an easy handling and integrated documentation of all tests up to 20 bar.



Product profile

KEY FEATURES

- 4.3" Touchscreen or physical buttons for an easy handling
- Pressure and leakage testing for gas pipelines according to TRGI 2018
- Leak rate measurement for gas pipelines according to TRGI 2018 and DVGW 5952
- Pressure and leakage testing for drinking water pipelines according to DIN EN 806-4
- Testing of gas pressure regulators
- Long-term measurement up to 72 hours
- RODATA Software and RODATA App for documentation and data management of all test results

TECHNICAL DATA

Display resolution:	480 x 272
Data transfer:	USB, WiFi
Battery life time:	approx. 8 h testing time, mains operation possible
Pressure range:	
Low pressure sensor:	Pressure range 0 – 1,000 mbar (resolution 0.1 mbar / hPa)
High pressure sensor:	Pressure range 0 - 20 bar / 0 - 2 MPa (resolution 0.01 bar / 0.001 MPa)
Leak rate measurement:	Leak rate 0 – 12 l/h (resolution 0.1 l/h)
Safety class:	IP40
Weight:	5.25 kg

Only available in Germany, Austria and Italy!

WiFi transmitter

Easy data transfer to mobile devices and PCs

4.3" Touchscreen

Easy and clear handling



All-in-One

High- and low-pressure sensor from 1 mbar/hPa up to 20 bar / 2 MPa in one device



No. 1500002677

Pressure and leakage testing for gas pipelines according to TRGI 2018



Testing of gas pressure regulators



Set (No. 1500002677) includes:

GW Digital basic unit incl. power plug, software disk with RODATA V3 software (No. 1500002851), 2x hose 2m low pressure (No. 1500002846), 1x hose 2m high pressure + shut-off valve (No. 1500002845), 2x gas test plug cylindrical size 2 (No. 351272), 2x adaptor 1/2" to NW5 plug (No. 1500002876), adaptor 1/8" to NW5 plug (No. 1500002853), adaptor nozzle pressure to NW5 plug (No. 61018), air pump (No. 1500002848), double bellow (No. 1500002847), shut-off valve NW5 (No. 61017), supply end cap (No. 61041)

Model _____ No.

ROTEST GW Digital V3 – Set gas / water **1500002677**

Testing and leak detection

Testing of gas and water lines



ROTEST GW Digital V3 - RoData V3 PC-Software

PC software for data management of all tests carried out

Product profile

KEY FEATURES

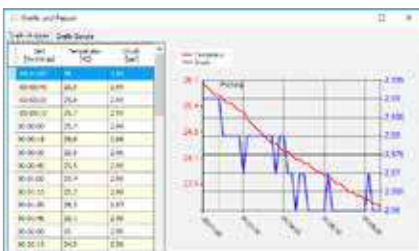
- Creation of a log with graphical representation of the test process
- Management of measurement data – overview of all measurements stored per customer
- Customer administration – import of VCard files (.vcf) possible
- Testing management – clear allocation of one employee per test
- Data transmission via USB cable or WiFi connection possible

TECHNICAL DATA

RoData V3 PC-Software:

Compatibility: Windows 2000, XP, 7, 8, 10

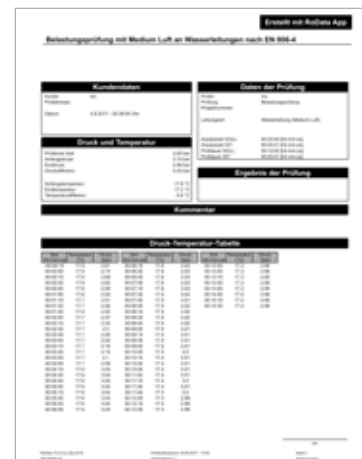
Size: 16.2 MB



Overview of measurement series with graph



Management of measurement series = RoData V3



Sample log according to DIN EN 806-4 with diagram

ROTEST GW Digital V3 - RoData Mobile App

App for the data management of all tests carried out

Product profile

KEY FEATURES

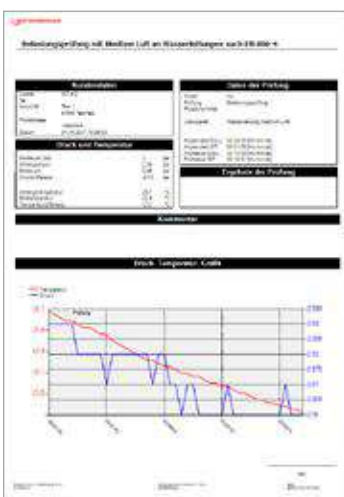
- Simple, quick and professional documentation
- Log ready for immediate use as a PDF
- Suitable for iOS and Android devices
- Measurement data transfer via WiFi
- User-defined company profile set-up in the log
- Ready-made logs for various measurement types (leak testing, usability testing, etc.)

TECHNICAL DATA

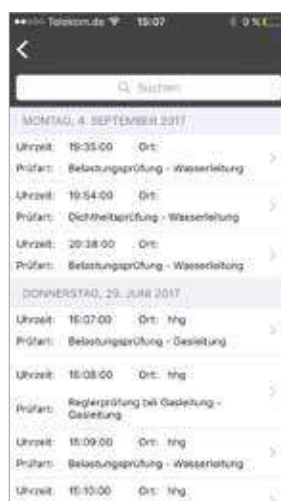
RoData Mobile App:

Compatibility: iOS 8.0 or newer, Android 4.4 or newer

Size: 11 MB



Sample log according to DIN EN 806-4 with measurement value table



Measurement overview
RoData Mobile App



Start screen RoData Mobile App

Testing and leak detection

Testing of gas and water lines

ROTEST GW 150/4

Analogue testing device for gas and water connections using air as the medium



Product profile

APPLICATION AREA

Analogue testing unit for the implementation of the following tests:

- Gas:** Load and leakage test for newly installed gas lines in accordance with DVGW-TRGI worksheet G 600 (October 2018)
 Leakage test from propane liquid gas lines / low-pressure liquid gas lines
 Adjustment of the duct pressure on atmospheric burners and forced-air burners
 Testing of the appliance connection pressure on gas appliances

Water: Pre-testing and testing of newly installed drinking water lines in accordance with DIN 1988 (TRWI)

KEY FEATURES

- Quick and precise pressure reading over water column without electronic
- Testing time and pressures in accordance with DVGW-TRGI and TRWI clearly arranged on unit cover
- Sturdy unit: High reliability when used on the building site

TECHNICAL DATA

- Pressure gauge:** 4 bar / 0.4 MPa
Water column: 180 mbar / hPa
Testing accuracy: Water column 0.1 mbar / hPa (Reading accuracy in accordance with TRGI)
 Pressure gauge 0.1 bar / 0.01 MPa (Display range 0 - 4 bar / 0 - 0.4 MPa)

DVGW-TRGI worksheet G 600 (October 2018) conforming!

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Testing scale up to 150 mbar on transparent extending tube element



Transparent tube element with double o-ring seal



Inspection glass

Water level control

Legible scaling

Continuous scaling up to 150 mbar

Measurement chart in unit

Testing times and testing pressure from lawmakers at a glance

Foam inlay

High transport safety and protection of the components

Compact measuring station

Designed to serve in real-life situations through quick, exact gas pressure measurements

Model in combination with basic unit



No.

with 5 test plugs and supply end cap

7.6

61700

with 5 test plugs without supply end cap


7.3

61701

Testing and leak detection

Testing of gas and water lines


Set components


Model		No.
Pressure pump ROTEST GW 150/4	0.30	61011
Bellow f. ROTEST GW 150/4	0.06	61014
Shut-off valve NW5 socket/plug	0.20	61017
Adaptor nozzle pressure to NW5 plug	0.20	61018
O-ring set (6 pcs.) GW 150/4	0.04	61030
Supply End Cap f. ROTEST GW 150/4	0.38	61041
1/8" adaptor to NW5 plug	0.10	1500002853
1/2" adaptor to NW5 plug	0.50	1500002876
Tube element (4 pcs.) GW 150/4	1.10	61702
Measurement fluid, blue, GW 150/4	0.10	351257
Hose 2 m high pressure + shut-off valve	0.20	1500002845
Hose 2 m low pressure ROTEST GW	0.20	1500002846
Double bellow GW Digital V3	0.10	1500002847
Air pump GW Digital v3	0.14	1500002848
CD RODATA V3 for ROTEST GW Digital V3	0.02	1500002851
Shut-off valve NW5 socket/socket	0.17	1500002852





Gas test plug / adaptor


Suitable for gas lines up to 1.5 bar


Model	Steel exterior pipe Ø inch	Copper exterior pipe Ø mm		No.
Conical shape with pneumatic connection				
Size 0	3/8 - 1/2"	15 - 18	45	351260
Size 1	1/2 - 1"	22 - 28	80	351261
Size 2	3/4 - 1.1/4"	35 - 42	125	351262
Size 3	1.1/4 - 2"	54 - 64	175	351263

Model	Steel exterior pipe Ø inch	Copper exterior pipe Ø mm		No.
Cylindrical shape with pneumatic connection				
Size 1	3/4"	22	60	351271
Size 2	1"	28	75	351272

Model	Steel exterior pipe Ø inch	Copper exterior pipe Ø mm		No.
Conical shape with hose coupling				
Size 0	3/8 - 1/2"	15 - 18	200	351220
Size 1	1/2 - 1"	22 - 28	300	351221
Size 2	3/4 - 1.1/4"	35 - 42	300	351222
Size 3	1.1/4 - 2"	54 - 64	400	351223

Model	Steel exterior pipe Ø inch	Copper exterior pipe Ø mm		No.
Conical shape with 2 ball valves				
Size 1	1/2 - 1"	22 - 28	260	351231
Size 2	3/4 - 1.1/4"	35 - 42	420	351232
Size 3	1.1/4 - 2"	54 - 64	700	351233

Model	Steel exterior Pipe Ø inch	Copper exterior Rohr Ø mm		No.
Conical shape with 1 ball valve				
Size 0	3/8 - 1/2"	15 - 18	200	351225
Size 1	1/2 - 1"	22 - 28	350	351226
Size 2	3/4 - 1.1/4"	35 - 42	390	351227
Size 3	1.1/4 - 2"	54 - 64	600	351228

Model		No.
With double plug valve - with hose snout		
Adaptor/cut-off valve with pn. connection	290	351265



Testing and leak detection

Testing of waste water lines

House connection test set

Set for testing in accordance with DIN EN 1610 and 1986 in combination with GW Digital (version 2.1 or newer)



Product profile

APPLICATION AREA

Testing balloon and accessories for the leakage testing of ground water piping using air in accordance with **DIN EN 1610 and DIN 1986, part 30**. Suitable for nominal diameters of 65 to 250 mm



No. 61340

KEY FEATURES

- Handy set: One testing and sealing balloon for the most common pipe diameters (included in set are diameters 75 - 150 mm, additional balloons available in accessories)
- Easier positioning of the balloon, even in hard to reach places using various push and filling rod sizes
- Body material is made out of aluminium and eases the positioning of the testing balloon through the pipe system
- Sturdy balloons made of natural rubber are temperature, use and waste water resistant. If the balloon becomes damaged, a simple repair is possible

TECHNICAL DATA

Maximum operating pressure: 1.5 bar
Push rod length: 10 m

11-part house connection test set (No. 61340) includes: sealing balloon NW 75-150 (No. 61352), testing balloon NW 75-150 (No. 1500002856), filling hose (No. 61365), test valve, filling valve (No. 61367), push rod (No. 61380), holding rope (No. 61368), upright pump with pressure gauge (No. 61369), plastic case (No. 61370), cover (No. 91123), plastic case inlay for upright pump (No. 91122)

Model	kg	No.	Ø Testing/sealing balloon	Testing balloon No.	Sealing balloon No.
House connection test	7.8	61340	Ø 65 - 100 mm	61358	-
			Ø 75 - 150 mm	1500002856	61352
			Ø 90 - 250 mm	1500002857	61353

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ROLEAK Aqua 3Plus

Easy to use leak detection device with acoustic signal for pipe systems



Product profile

KEY FEATURES

- Leak detection for various pipe materials
- Amplifies flow noise for exact detection of leaks



Acoustic leak detection of heating installations



KEY FEATURES

- Digital wireless connection to headphones
- Possibility to connect an external microphone
- Bluetooth connection for a better and clear noise transmission to headphones. This also allows to control the volume with the handunit

TECHNICAL DATA

3-staged Frequency filter: 1. Stage: 0 - 540 Hz
 2. Stage: 540 - 4,000 Hz
 3. Stage: 0 - 4,000 Hz
Operating time: ca. 15h Li-Ion Battery
Weight: 250 g (Handheld device)
Level of protection: IP 41

Improved sound compared with previous models!

6-parts Set (No. 1500003533) includes: basic unit, headphones, magnetic adaptor, 2 x extensionstick, tripod-adaptor, ROCASE 4414

Model	kg	No.
ROLEAK Aqua 3Plus	3.1	1500003533
External groundmicrophone	0.5	1500003535

Testing and leak detection

Leak detection on gas lines



ROTEST Electronic 4

Leak detection on gas lines

Product profile

APPLICATION AREA

For the detection of gas in room as well as leaks in pipes. Detects all flammable methane based gases

KEY FEATURES

- Leaks are optically as well as acoustically displayed
- With the help of the 42 cm long, flexible testing head and the integrated lamp, even dark and hard to reach places can be tested
- Quick and precise leak location of even the smallest leak source: The sensitivity of the unit can be adjusted continuously in a range from < 50 ppm - 1 Vol %
- Shock-proof soft case jacket and simple one-handed operation of the unit for use on the building site

TECHNICAL DATA

Detects: Natural gas, propane, butane, methane, acetone, alcohol, ammonia, benzyl, ethylene, gasoline, hydrogen, industrial solvents, jet fuel, paint thinner, naphtha, toluene

Sensitivity: < 50 ppm – 1 Vol % (Methan)



Finds leaks easily



Set (No. 1000003199) includes:
ROTEST Electronic 4, 2x AA battery in ROCASE 4212 (No. 1300003334)

Model	kg	No.
ROTEST Electronic 4	1.25	1000003199

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ROTEST

Leak detection on gas lines

Product profile

APPLICATION AREA

Ideal for detecting leaks in gas-filled lines, gas cylinders or containers. When a leak is present a blister forms.

KEY FEATURES

- Simple use - always ready to use
- Highly sensitive foaming spray for a quick and reliable locating of leaks

TECHNICAL DATA

Detects gases (for example natural gas, inflammable gas, air)
The leak detection spray is neutral against the most common inflammable gases and refrigerants. The only reaction is the building of foam

Highly sensitive foam spray:
Quick and reliable location of leaks!



DVGW-tested
Reg.-No. NG-5170CL0063



Model	Content	g	kg	No.
ROTEST leak detection spray	400 ml	470	12	65000

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