Leybold

PHOENIX MOBILIS Ultra

Handheld gas leak detector



Your partner for fast and accurate leak detection



The PHOENIX MOBILIS Ultra is not only robust but also a reliable leak detector capable to withstand high magnetic fields as standard. Especially designed to be easy to use for a fast and effective response, it combines all the advantages you need.

Easy to use

The PHOENIX MOBILIS Ultra is designed to be easy to use with just one hand. This allows you to check for leaks in hard-to-reach positions of your equipment.

- It features a modern large LCD display that allows easy intuitive navigation and good visibility overall.
- It provides for reliable and repeatable measurements.
- It also features an audible alarm and flashing display for clear leak indication.
- … and storage of your readings on the device.

Highly sensitive

The PHOENIX MOBILIS Ultra detects leaks at low levels. It rapidly and effectively indicates the presence of almost any gas or gas mixture and is particularly accurate to ammonia, helium, or hydrogen amongst others. Maximum Sensitivity is provided through small internal flow rates.

Magnetic field resistant

The PHOENIX MOBILIS Ultra operates perfectly in environments showing a high magnetic field such as in MRI (Magnetic Resonance Imaging) for example. It can be used without interruptions, even while the MRI is running.

Other features and benefits

- When switched on the PHOENIX MOBILIS Ultra automatically zeros to the ambient surrounding air to make sure it is ready to go after startup.
- It is a very inexpensive leak detection solution both on equipment and on consumables and parts.
- It includes a large choice of readings in cc/sec, g/yr, mg/m³: you decide what's best for you!

Applications

The PHOENIX MOBILIS Ultra is well suited for operators in a large variety of different applications. Anywhere where the leak tightness of a specific gas is important this device offers a great option to make sure your application is running at the same quality at all times.

- Industrial processes
- Automotive manufacturing
- Applications using refrigerants
- MRI
- and many more…

Its major use cases stretch from R&D to manufacturing, quality insurance, and maintenance departments.

Technical data and Ordering information

Technical data

	Value
Detector	Micro thermal conductivity detector (MTCD)
Battery type	Rechargeable Li-ion battery
Battery life	20 hours
Audible alarm	≥ 90 dBa at 10 cm at 50 % relative humidity (room temperature)
Factory calibration	5000 ppm helium (±5 %) | Leak: 0.0005 cc/sec (±5 %)
Sensitivity (Helium)	5E-6 cc/s | 150 ppm
Data logging	10 days continuous
Response (T90)	1 second
Flow rate	2cc/s
Ingress protection	IP44
temperature	Operating: 0°C to 50°C
Humidity	0 to 99% R.H
Weight	447g (approx.)
Dimensions – Instrument	320 x 80 x 55 mm (approx.)
Dimensions – Case	420 x 340 x 97 mm

Ordering information

Description	Part number
PHOENIX MOBILIS Ultra supplied in carrying case with box spanner, flexible probe assembly, standard capillary probe, capillary probe – short (for 200 mm flexible probe), standard nozzle, communication interface cable, USB-cable	253010V02
Accessories and Spares	
Flexible Probe 200mm	253015V02
Probe Sleeve (pack of 5)	253016V02
Capillary Probe – standard (10 mbar restriction)	253017V02
Nozzle	253018V02
Communication Interface Dongle	253014V02
Capillary Probe – short (for 200mm Flexible Probe)	253019V02

Gas table

Gas name	Trade name	Formula	Molecular weight	Gas group
Air				
GAS GROUP 1			4	
GAS GROUP 2			120	
GAS GROUP 3			80	
GAS GROUP 4			50	
GAS GROUP 5			40	
Helium		He	4	1
Hydrogen		H2	2	1
Ammonia		NH3	17	2
Butane		C4H10	58	2
Krypton		Kr	84	2
Methane		CH4	16	2
Neon		Ne	20	2
Sulfur dioxide		SO2	64	2
Sulfur hexa fluoride		SF6	146	2
Trichloromethane		CHCl3	119	2
1,1,2-Trichlorotrifluoroethane	R113	C2Cl3F3	187	2
1,2-Dichlorotetrafluoroethane	R114	C2Cl2F4	171	2
Dichlorodifluromethane	R12	CCl2F2	121	2
Bromotrifluoromethane	R1301	CBrF3	149	2
Chlorodifluromethane	R22	CHF2Cl	86	2
refrigerant R 502	R502	CHClF2, CClF2HCF3	112	2
Xenon		Xe	131	2
Acetone		C3H6O	46	3
Argon		Ar	40	3
refrigerant R 404a	R404a	R125:143a:134a = 44:52:4	98	3
refrigerant R 407c	R407c	R134a: R125: R32 = 40:40:20	86	3
refrigerant R 507	R507	CF3CH3:CF3CHF2 = 50:50	104	3

Gas name	Trade name	Formula	Molecular weight	Gas group
refrigerant R 245FA	R245FA	CF3CH2CHF2	134	3
Boron trifluoride		BF3	68	3
Carbon dioxide		CO2	44	3
Deuterium oxide		D2O	20	3
Diethyl ether		C4H10O	74	3
Ethanol		C2H5OH	46	3
Hexane		C6H14	86	3
Hydrogen chloride		HCL	36	3
Hydrogen sulphide		H2S	34	3
Methanol		CH4O	32	3
Nitrous oxide		N2O	44	3
Pentane		C5H12	72	3
Perfluorocyclobutane	C318	C4F8	200	3
Tetra fluoromethane	R14	CF4	88	3
Trichlorofluromethane	R11	CFCl3	137	3
Water		H2O	18	3
Acetylene		C2H2	26	4
Ethane		C2H6	32	4
Ethylene Oxide		C2H4O	54	4
Ethylene		C2H4	28	4
Isobutane	R600a	C4H10	58	4
Propane		C3H8	44	4
Tetrafluoroethane	R134a	C2H2F4	102	4
Carbon monoxide		CO	28	5
Nitric oxide		NO	30	5
Nitrogen		N2	28	5
Oxygen		O2	32	5

For indication only.
If in doubt, please contact us quoting chemical name, and CAS number.



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Pioneering products. Passionately applied.