

## The versatile sniffing leak detector offer

Accept no compromise when you need, sensitivity, stability, measuring range and response/clean up time. Both helium leak detector models ASM 142 S and 102 S have the same analyzer cell technology that delivers high performance.

Both units will allow the operator to easily pint point very small leaks, the ones that you could not see previously when using other technologies and that had an important impact on the quality of your products or your process.

# The ASM 142 S and ASM 102 S deliver:

#### **High sensitivity**

1.10<sup>-7</sup> mbar.l/s or 0.1 ppm of helium. This high level of resolution allows a fast diagnostic and high sensitivity test.

#### Wide measuring range

From 0.1 ppm to 100% helium

#### Fast response time

Less than 1 s. (with a 5 m/16 ft sniffer probe)

#### Fast clean-up time

#### **Excellent stability**

The helium signal stability is crucial for small leak detection.

#### 3 masses (option)

The ASM 102 S can also be equipped with a 3 masses option, allowing the detection of helium (He3) and Hydrogen (H2).

# The ASM 142 S and ASM 102 S offer exciting new features:

- enhanced helium signal background suppression with floating auto-zero function to ensure that helium signal never falls below zero,
- latest standard electronics generation with additional features,
- voice synthesizer for additional operator interface ability,
- independent access to primary and secondary filament for quick single filament replacement.

#### **User friendliness**

It takes no more than few minutes to get familiar with its operation:

- auto-calibration,
- floating Auto-zero function to gain sensitivity,
- helium signal direct readout function to remove operator interpretation.



#### ASM 102 S

This portable dry helium leak detector is ideally designed to answer any portability leak testing needs. Its dry pumping package enhances its usage flexibility and can operate in any direction and angles. This is very critical when leak testing in congested areas and/or with limited access.



#### ASM 142 S

This industrial helium leak detector sniffer unit provides ruggedness and performance for a 24h/day usage in very harsh environments. Its auto-calibration feature, compensating for temperature as well as age, guarantees this unit will always deliver high leak detection performance even for very demanding leak detection applications. Its user friendliness requires no training and can be operated by any one.

## **Applications**

Control and maintenance of any part or installation used under pressure (outboard testing):

- refrigeration / air conditioning market
- underground cables and tubes,
- valves and manifolds,
- underground or external storage tanks,
- reactors, heat exchangers, vapor generators,
- maintenance for air conditioning systems,
- leak testing Kerosene tanks (wings and fuselage) after assembly,
- maintenance of airplanes: wings and fuselage,
- off shore test of gas installations,
- leak test liquid Propane gas and oil tankers,
- test of gas line installations in semiconductor fabs and aeronautic and aerospace applications.





## **Options**

#### 3 masses

In addition to the Helium (He4), Helium (He3) and Hydrogen can also be detected. The 180 degrees magnetic deflection analyzer cell delivers an exceptional selectivity between masses.



#### **Measurement units**

The multi-color remote control offers the choice from 3 different measurements units :

- mbar.l/s and mbar.
- Pa.m<sup>3</sup>/s and hPa.
- Torr.l/s and Torr.

#### Language

4 different languages are available for the operator convenience (L.C.D. display and voice synthesizer messages). English - French - German - Japanese.

## Accessories

#### Long distance **Sniffer probe Rigid Nozzle** Description PART NUMBER Description Flexible Nozzle 10 m/32 ft extension tube for long distance 090216 sniffer probe 9 cm/3.5" 30 cm/12" 15 cm/6" 45 cm/18" Tube lenght: SNC1E1T1 SNC1E2T1 SNC1E3T1 SNC1E4T1 5 m /16 ft Tube lenght: SNC2E1T1 SNC2E2T1 SNC2E3T1 SNC2E4T1 10 m / 32 ft

#### **Calibration accessory**

\* For accessories, see "Accessories for helium leak detectors".

# **Main characteristics**

Specifications	ASM 142 S	ASM 102 S					
(*) Measurement range	$1.10^{-7}$ to 1 mbar.l/s helium (0.1 ppm to 100% helium)						
Response time	Around 1 s for a 5 meters/16 feet sniffer tube						
Power consumption	500 watts	100 watts					
Dimensions	W 510 x D 343 x H 428 mm W 20.1 x D 13.5 x H 16.8 inch	W 480 x D 430 x H 165 mm W 18.9 x D 16.9 x H 6.5 inch					
Weight	56 kg / 123 lb	18 kg / 39 pounds					

Integrated functions	ASM 142 S	ASM 102 S					
	Built-in calibrated leak	Auto-calibration					
Auto-zero (with floating zero method to ensure that the signal never goes negative)							
Automatic signal correction (external calibration or manually adjustable correction factor)							
Standard sniffer probe including a 5 meters / 16 feet tube - p/n SNC1E1T1							
Hand-held remote control supplied with the leak detector (ASM 102 S only)							
Interface Board RS 232 (option for ASM 142 S)							
Audio-management: Audio alarm with a variable pitch (up to 90 dBA) / Voice synthesizer							

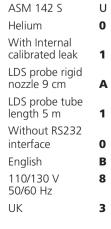


(\*) According to AVS 2.1 and ISO 3530 standard.

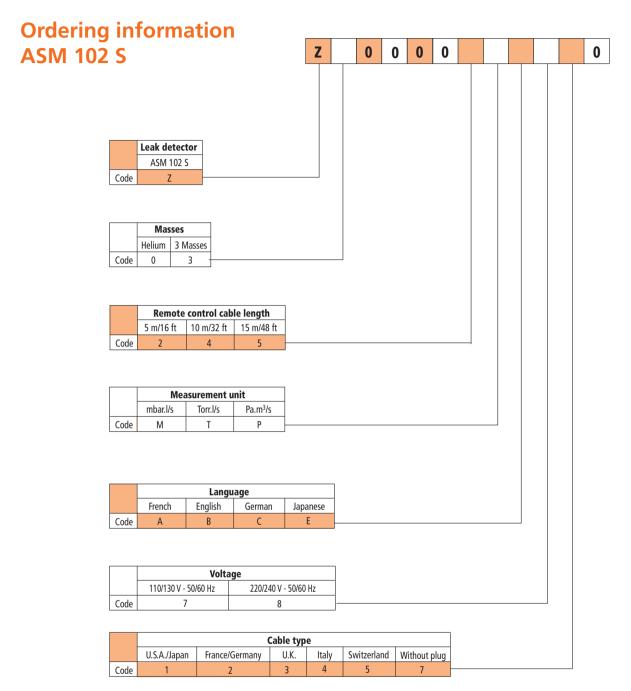
Ordering info	ormati	on							_
ASM 142 S				U	R	S			
	Leak detector								
	ASM 142 S	-							
Code	U	]							
	Masses								
	Helium 3 mas		This option allows the						
Code	0 3	leak detector	to detect masses 2, 3 a	nd 4.					
			_						
	Internal cali	1	-						
	Without	With	-						
Code	0	1							
		Sniffer	araha		_				
	Rigid	Rigid	Flexible	Flexible					
	9 cm/3.5"	30 cm/12"	15 cm/6"	45 cm/18"					
Code	А	В	С	D					
	Sniffer pro	be length	]						
	5 m (16 ft)	10 m (32 ft)							
Code	1	2							
			1						
	Interfac		-						
Carla	Without	With							
Code	0	1							
		Language							
	French	English	German	Spanish					
Code	A	В	С	F					
		Vol	tage						
	100/130 V			- 50/60 Hz					
Code		7		8			 		
			Cable type						
	U.S.A. Fran	ce/Germany	U.K. Italy	Switzerland	Without plu	g			
Code	1	2	3 4	5	7				

For example

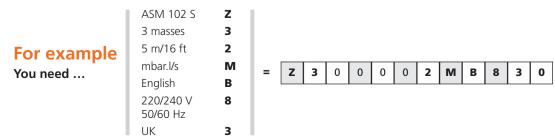
You need ...







A standard long distance sniffer probe (5 m / 16 ft tube length / nozzle 9 cm - p/n SNC1E1T1) is provided with the ASM 102 S.



# adixen

#### China

Alcatel Vacuum Technology Shanghai Tel: (8621) 5027 0628 Fax: (8621) 3895 3815

#### France (Headquarters)

Alcatel Vacuum Technology France Tel: 33 (0)4 50 65 77 77 Fax: 33 (0)4 50 65 77 89

#### Germany

Alcatel Hochvakuum Technik GmbH Tel: (49) 9342 96 10 0 Fax: (49) 9342 96 10 30

#### Italy

Alcatel Vacuum Systems S.p.A. Tel: (39) 039 686 3855 Fax: (39) 039 667 125

#### India

Alcatel Vacuum Technology India Tel: (91) 124 4737777 Fax: (91) 124 4737799

#### Japan

Alcatel-Lucent Japan Ltd Tel: (81) 3 6431 7130 Fax: (81) 45 544 0049

#### Korea

Alcatel Vacuum Technology Korea Tel: (82) 31 206 6277 Fax: (82) 31 204 6279

#### **Netherlands**

Alcatel Vacuum Technology Netherlands Tel: (31) 345 478 400 Fax: (31) 345 531 076

#### Singapore

Alcatel-Lucent Singapore Tel: (65) 6254 0828 Fax: (65) 6254 7018

#### Sweden

Adixen Scandinavia Tel: (46) 13 35 59 00 Fax: (46) 13 35 59 01

#### Taiwan

Alcatel Vacuum Technology Taiwan Tel: (886) 3 5599 230 Fax: (886) 3 5599 231

#### **United Kingdom**

Alcatel Vacuum Technology (U.K.) Ltd Tel: (44) 1 506 418 000 Fax: (44) 1 506 418 002

#### USA

Alcatel Vacuum Products Tel: (1) 781 331 4200 Fax: (1) 781 331 4230

Alcatel Vacuum Technology France

98, avenue de Brogny - BP 2069 - 74009 ANNECY CEDEX - FRANCE - Tel.: 33 (0)4 50 65 77 77 - Fax: 33 (0)4 50 65 77 89 www.adixen.com