



# Service Tools for Automotive

Catalog 2



# AST300PPM

## REFRIGERANT LEAK DETECTOR WITH PPM DISPLAY

AST300PPM takes automotive leak detection to the next level. The large, easy-to-read LCD display can not only pinpoint the leak location, but help quantify the leak size using the PPM reading. AST300PPM detects R134a, R1234yf, and even CO<sub>2</sub> using the optional CO<sub>2</sub> sensor, so you can be ready for any application. Upgrade your toolbox today!



EN14624

R134a  
R1234yf



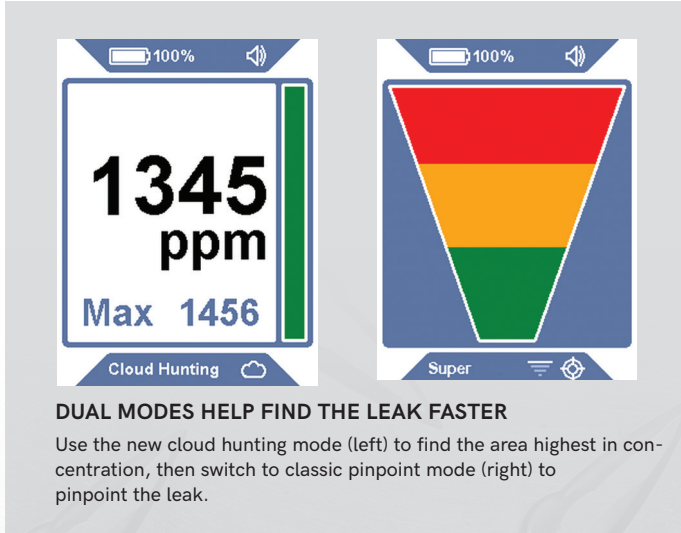
SAE J2791  
SAE J2913



### ADVANTAGES

- Detects R134a and R1234yf
- PPM, automatic and manual zero modes
- Meets all SAE standards for automotive AC leak detection
- Infrared sensor - Minimizes false alarms from common under-hood chemicals
- Infrared sensor with easy field replacement
- Quick charging lithium ion battery
- Compatible with optional CO<sub>2</sub> sensor
- Includes UV inspection light and R1234yf check gauge





**SPECIFICATIONS**

|   |  |
|---|--|
| Includes                                | Infrared sensor<br>Lithium ion battery<br>Spare filters<br>AC wall charger<br>DC car charger<br>Extra-long probe<br>Carrying case<br>Earbuds<br>UV inspection light<br>R1234yf check gauge |
| Compatible refrigerants                 | R134a and R1234yf (and all other HFCs, HFOs, and blends)<br>CO <sub>2</sub> (requires optional CO <sub>2</sub> sensor)   |
| Sensitivity per EN14624                 | 1 g/yr (R134a)<br>0.5 g/yr (R1234yf)   |
| Sensitivity for R744 (CO <sub>2</sub> ) | 0.07 oz./yr. (2 g/yr.) (requires CO <sub>2</sub> sensor)   |
| Power source                            | Lithium ion battery (rechargeable)<br>USB (can operate while charging)   |
| Battery life                            | ~8 hours (cloud hunting mode)<br>~10 hours (pinpoint mode)   |
| Weight                                  | 1.10 lb. (500g)  |
| Certifications                          | CE<br>SAEJ2791<br>SAEJ2913<br>EN14624:2020<br>A2L certified  |
| Patents                                 | Pat. US 11441969B2<br>Pat. US 11262296B2<br>Application #18171080.7  |
| Probe length (standard probe)           | ~17 in. (43cm)   |
| Warranty                                | Two-year   |

**ORDERING INFORMATION**

|  |             |
|--|-------------|
| AST300PPM                                | AST300PPM   |
| <b>ACCESSORIES AND REPLACEMENT PARTS</b> |             |
| Earbuds                                  | 721-607-G1  |
| TEK-Check™ R134a reference leak          | 703-080-G10 |
| TEK-Check™ R1234yf reference leak        | 703-080-G12 |
| Wall charger (US and international)      | 721-606-G1  |
| 12 V (dc) car charger                    | 721-605-G1  |
| Lithium ion battery                      | 721-702-G1  |
| Battery charging cradle                  | 721-610-G1  |
| Battery/cradle combo                     | 721-604-G1  |
| Extra-long probe                         | 721-611-G1  |
| Needle probe extension                   | 721-612-G1  |
| Refrigerant sensor (R134a and R1234yf)   | 724-701-G1  |
| CO <sub>2</sub> sensor                   | 724-701-G2  |
| Filter cap                               | 712-705-G1  |
| Filter cartridges                        | 712-707-G1  |

# AST200IR

## REFRIGERANT LEAK DETECTOR

AST200IR uses years of proven technology making automotive leak detection quick and easy. The quick-charging lithium ion battery and long-lasting infrared sensor make the AST200IR a tool you can rely on to perform, day after day. AST200IR detects R134a, R1234yf, and even CO<sub>2</sub> using the optional CO<sub>2</sub> sensor, so you can be ready for any application. Upgrade your tool box with this accurate and reliable leak detector.



SAE J2791  
SAE J2913

EN14624

R134a  
R1234yf

Li-Ion



### ADVANTAGES

- Detects R134a and R1234yf
- Meets all SAE standards for automotive AC leak detection
- Infrared sensor minimizes false alarms from common under-hood chemicals
- Infrared sensor with easy field replacement
- Quick charging lithium ion battery
- Compatible with optional CO<sub>2</sub> sensor
- Includes UV inspection light and R1234yf check gauge





**SPECIFICATIONS**

|   |   |
|---|---|
| Includes                                | Infrared sensor<br>Lithium ion battery<br>Spare filters<br>AC wall charger<br>Carrying case<br>UV inspection light<br>R1234yf check gauge |
| Compatible refrigerants                 | R134a and R1234yf (and all other HFCs, HFOs, and blends)<br>CO <sub>2</sub> (requires optional CO <sub>2</sub> sensor)                    |
| Sensitivity per EN14624                 | 1 g/yr (R134a)<br>0.5 g/yr (R1234yf)  |
| Sensitivity for R744 (CO <sub>2</sub> ) | 0.07 oz./yr. (2 g/yr.) (requires CO <sub>2</sub> sensor)  |
| Power source                            | Lithium ion battery (rechargeable)<br>Micro USB (can operate while charging)  |
| Battery life                            | ~10 hours   |
| Weight                                  | 0.97 lb. (440 g)  |
| Certifications                          | CE<br>SAEJ2791<br>SAEJ2913<br>EN14624:2020<br>A2L certified   |
| Patents                                 | Pat. US 11262296B2  |
| Probe length                            | ~17 in. (43 cm)   |
| Warranty                                | Two-year  |

**ORDERING INFORMATION**

| AST200IR   | AST200IR    |
|--|-------------|
| <b>ACCESSORIES AND REPLACEMENT PARTS</b>                 |             |
| Earbuds  | 721-607-G1  |
| TEK-Check™ R134a reference leak                          | 703-080-G10 |
| TEK-Check™ R1234yf reference leak                        | 703-080-G12 |
| Wall charger (US and international)                      | 721-606-G1  |
| 12 V (dc) car charger                                    | 721-605-G1  |
| Lithium ion battery                                      | 721-702-G1  |
| Battery charging cradle                                  | 721-610-G1  |
| Battery/cradle combo                                     | 721-604-G1  |
| Extra-long probe (~27 in. (69cm))                        | 721-611-G1  |
| Needle probe extension                                   | 721-612-G1  |
| Refrigerant sensor (Detects CFCs, HFCFs, HFCs, and HFOs) | 724-701-G1  |
| CO <sub>2</sub> sensor                                   | 724-701-G2  |
| Filter cap   | 712-705-G1  |
| Filter cartridges  | 712-707-G1  |

# AST100

## REFRIGERANT LEAK DETECTOR

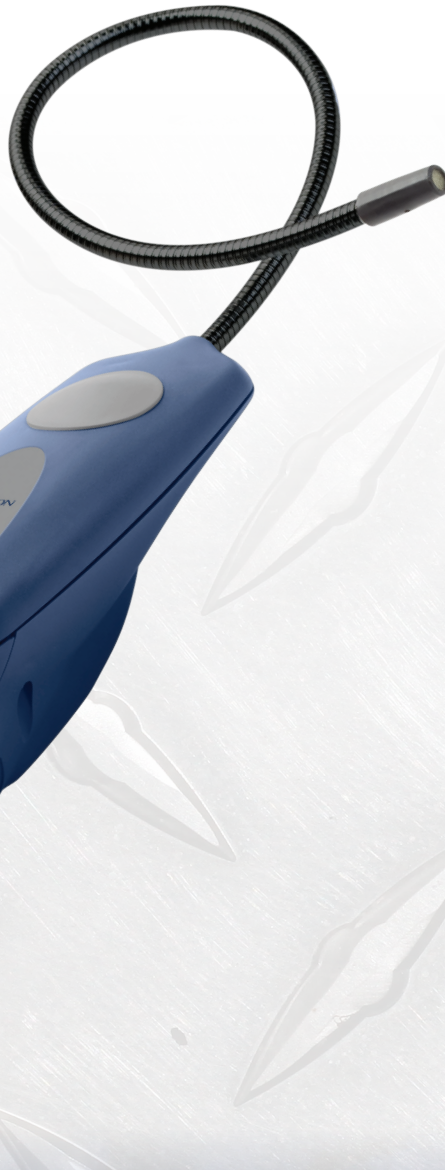
Affordable price, simple operation, and reliable performance make AST100 a great choice for any technician. Save time by finding both R134a and R1234yf leaks like a professional with AST100.



R134a  
R1234yf



EN14624



### ADVANTAGES

- Sensitivity of 2 g/yr (per EN14624)
- Detects R134a and R1234yf
- Reliable heated diode sensor
- Fewer false alarms than standard automotive leak detectors
- Runs on two D-cell batteries
- Includes UV inspection light

### SPECIFICATIONS

|                         |   |
|-------------------------|---|
| Includes                | Heated diode sensor<br>Two D-size alkaline batteries<br>Spare filters<br>Carrying case<br>UV Inspection light |
| Compatible refrigerants | R134a and R1234yf (and all other HFCs, HFOs, and blends)  |
| Sensitivity per EN14624 | 2 g/yr (R134a)  |
| Power source            | Two D-size alkaline batteries   |
| Battery life            | 16 hours  |
| Weight                  | 1.54 lb. (700g)   |
| Certifications          | CE<br>SAE J1627<br>EN14624:2020<br>A2L certified  |
| Probe length            | 15 in. (38cm)   |
| Warranty                | Two-year  |

### ORDERING INFORMATION

|  |             |
|--|-------------|
| AST100                                   | AST100      |
| <b>ACCESSORIES AND REPLACEMENT PARTS</b> |             |
| TEK-Check™ R134a reference leak          | 703-080-G10 |
| TEK-Check™ R1234yf reference leak        | 703-080-G12 |
| Sensor                                   | 703-020-G1  |
| Filters                                  | 705-600-G1  |

# AST100FG

## FORMING GAS AND HYDROGEN FUEL CELL LEAK DETECTOR

Forming gas (95% nitrogen/5% hydrogen), an inexpensive and readily available gas, can be used to leak check an empty AC system using AST100FG. This saves money and reduces environmental impact compared to leak checking with refrigerant. AST100FG is also intrinsically safe for use in other applications where flammable or explosive gases are present.



### SPECIFICATIONS

|                |  |
|----------------|--|
| Includes       | Combustible gas sensor<br>Two D-size alkaline batteries<br>Carrying case<br>UV Inspection light  |
| Detects        | Hydrogen forming gas<br>Gasoline<br>Natural gas<br>Propane<br>Butane<br>and more   |
| Sensitivity    | Forming gas: 7g (0.25 oz.)/year<br>R134a equivalent<br>5 ppm for methane, propane,<br>isobutane, and hydrogen<br>1 ppm for gasoline              |
| Power source   | Two D-size alkaline batteries (use<br>Duracell® MN1300<br>to maintain intrinsically<br>safe approval)  |
| Battery Life   | 25 hours   |
| Weight         | 1.54 lb. (700 g)   |
| Certifications | CE<br>Intrinsically safe for Class I,<br>Division I, Groups A - D, T4 and II<br>3G Ex nA nL IIC T4 X as per MET<br>Laboratories Listing #E112145 |
| Probe length   | 15 in. (38 cm)   |
| Warranty       | Three-year   |

### ORDERING INFORMATION

AST100FG                      AST100FG

### ACCESSORIES AND REPLACEMENT PARTS

Sensor                              706-700-G1  
Forming Gas Charging Kit 746-600-P1

### ADVANTAGES

- Detects forming and combustible gases
- Long sensor life
- Certified intrinsically safe
- Includes UV inspection light

### TYPICAL APPLICATIONS

- Automotive AC service with forming gas
- Propane forklift leaks
- Hydrogen fuel cell leaks
- Fuel system leaks for gasoline or LNG vehicles

# AST-ID

## AUTOMOTIVE REFRIGERANT IDENTIFIER

AST-ID is designed to verify that the refrigerant in a vehicle or cylinder meets the purity standard necessary for use or reuse. AST-ID also reveals the presence of contaminants like hydrocarbons and oxygen, both of which can negatively impact the performance of an AC system. Protect your refrigerant supply from potential contamination and optimize AC performance with the accurate, easy-to-use AST-ID.



Also available as an integrated version for RRR machines!

- SAE or VDA output
- SAE J2927 approved
- One unit for R134a and R1234yf
- Five-year O<sub>2</sub> sensor
- Bezel and direct mount options



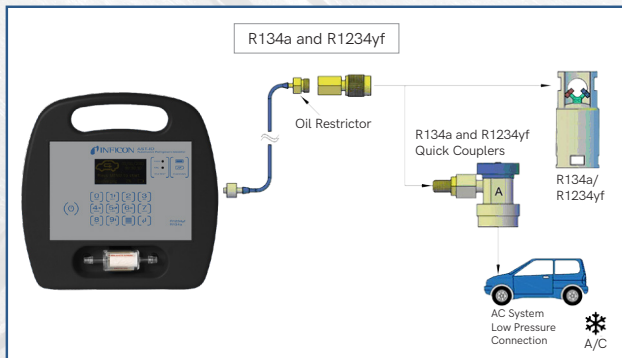
AST-ID Integrated

### ADVANTAGES

- Identifies purity of R1234yf and R134a
- SAE or VDA test modes
- Sample vapor from cylinders or vehicles
- Compact and lightweight portable design
- Sample contents shown as a percentage of weight
- Five-year O<sub>2</sub> sensor
- SAE J2912 approved
- Multi-language operation includes English, German, French, Italian, Spanish, Chinese, Polish

AST-ID includes:

- Identifier
- AC Wall charger (US and International)
- Sampling hose with oil restrictor
- Couplers for R134a and R1234yf vehicles
- R134a and R1234yf cylinder adapters
- Hard plastic carrying case







**SPECIFICATIONS**

|                         |  |
|-------------------------|--|
| <b>Includes</b>         | AST-ID<br>Sample hose with oil restrictor<br>R134a vehicle low side quick connect<br>R1234yf vehicle low side quick connect<br>R134a cylinder adapter<br>R1234yf cylinder adapter<br>AC wall charger<br>Calibration certificate<br>Carrying case |
| Compatible refrigerants | R134a and R1234yf  |
| Data output format      | SAE or VDA (selectable)  |
| Sample type             | Vapor (less than 5 g per test)   |
| Oxygen sensor life      | 5 years typical  |
| Infrared sensor life    | 5 years typical  |
| Power source            | Lithium ion battery (rechargeable)   |
| Battery life            | ~8 hours   |
| Weight                  | 2.7 lbs (1.2 kg)   |
| Certifications          | CE, UKCA<br>SAE J2912<br>SAE 2927 (AST-ID Integrated)<br>UL 61010  |
| Sample tube length      | 67 in. (1.7 m)   |
| Warranty                | Two-year   |

**ORDERING INFORMATION**

|                                       |            |
|---------------------------------------|------------|
| AST-ID                                | 505-202-G1 |
| AST-ID Integrated (SAE), bezel mount  | 505-203-G1 |
| AST-ID Integrated (VDA), bezel mount  | 505-203-G2 |
| AST-ID Integrated (SAE), direct mount | 505-204-G1 |
| AST-ID Integrated (VDA), direct mount | 505-204-G2 |

**ACCESSORIES AND REPLACEMENT PARTS**

|  |            |
|--|------------|
| Bluetooth® Printer                     | 505-603-P1 |
| Printer paper rolls (5 pack)           | 502-604-P1 |
| Sample hose with oil restrictor        | 505-701-G1 |
| R134a vehicle low side quick connect   | 505-702-P1 |
| R1234yf vehicle low side quick connect | 505-703-P1 |
| R134a cylinder adapter                 | 505-704-P1 |
| R1234yf cylinder adapter               | 505-705-P1 |
| Oil filter                             | 505-707-P1 |
| Lithium ion battery                    | 505-708-P1 |
| Oxygen sensor                          | 505-709-P1 |
| Wall charger (US and international)    | 033-0097   |

# Forming Gas Charging Kit

Forming gas (95% N<sub>2</sub>/5% H<sub>2</sub>) is an increasingly popular and environmentally safe method for leak checking auto AC systems. The Forming Gas Charging Kit allows you to easily charge an empty AC system with forming gas to 120 psi\*. Once charged, leak check the system using a forming gas leak detector, such as INFICON AST100FG. Once the system is confirmed to be leak-free, the gas can be vented to the atmosphere and the system can be charged with the appropriate refrigerant.

\*Refer to SAE guidelines or the vehicle service manual for exact charging pressure. Only available in North America.



## ADVANTAGES

- Solid brass regulator
- CGA350 inlet on regulator
- Couplers for both R1234yf and R134a systems
- Allows for leak checking with environmentally friendly N<sub>2</sub>H<sub>2</sub>
- Economical leak detection without the loss of expensive refrigerant
- Charges both high and low side of the AC system

## SPECIFICATIONS

|          |  |
|----------|--|
| Includes | Regulator<br>Two 8 ft. (2.4 m) service hoses<br>R134a high and low side couplers<br>R1234yf high and low side couplers |
|----------|--|

## REGULATOR SPECS:

|                             |   |
|-----------------------------|---|
| Inlet connection            | CGA350 (standard for North America N <sub>2</sub> H <sub>2</sub> cylinders) |
|                             | Piston actuated seal for durability   |
|                             | Steel case construction with polycarbonate lens                             |
|                             | Protective rubber gauge boots   |
|                             | T-Handle for ease of pressure adjustment                                    |
| 2 in. (5 cm) delivery gauge | 0-200 psi   |
| Max delivery pressure       | 120 psi   |
| Resealable safety blow off  | 150 psi   |
| 2 in. (5 cm) contents gauge | 0-4000 psi  |
| Outlet connection           | "T" fitting with two 1/4 in. male flares                                    |

## ORDERING INFORMATION

|                          |            |
|--------------------------|------------|
| Forming Gas Charging Kit | 746-600-P1 |
|--------------------------|------------|



# About INFICON

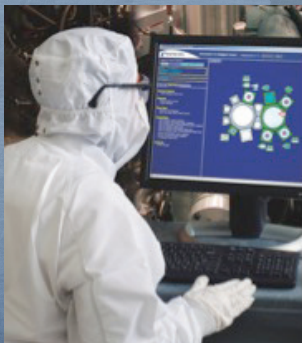
INFICON provides technology leadership and application expertise in areas such as gas analysis, leak detection, vacuum measurement and control, as well as the chemical analysis of air, soil, and water. Our products are used in a variety of applications and markets.

Production leak detectors from INFICON ensure quality in air conditioning, refrigeration and automotive

manufacturing worldwide, and technicians rely on INFICON Service Tools to ensure that these products will remain free of leaks for years to come. For more information about INFICON, its products and its global sales and service network, go to [www.inficon.com](http://www.inficon.com).

**We provide a global network of experts who offer fast and local applications and product support.**

- Group Administration
- Competence Centers
- Specialized Competence Centers
- Sales, Application and Service Offices



**SEMICONDUCTOR AND VACUUM COATING**



**SAFETY AND ENERGY**



**COOLING, CLIMATE CONTROL AND AUTOMOTIVE**



**GENERAL VACUUM APPLICATIONS**

**For sales and service, visit [www.inficonserVICETOOLS.com](http://www.inficonserVICETOOLS.com)  
or contact us at:**

[service.tools@inficon.com](mailto:service.tools@inficon.com)

[serVICETOOLS.europe@inficon.com](mailto:serVICETOOLS.europe@inficon.com)

[reach.china@inficon.com](mailto:reach.china@inficon.com)

[reach.japan@inficon.com](mailto:reach.japan@inficon.com)

[reach.korea@inficon.com](mailto:reach.korea@inficon.com)

[reach.taiwan@inficon.com](mailto:reach.taiwan@inficon.com)

[reach.singapore@inficon.com](mailto:reach.singapore@inficon.com)



[www.inficonserVICETOOLS.com](http://www.inficonserVICETOOLS.com)

[service.tools@inficon.com](mailto:service.tools@inficon.com)

Due to our continuing program of product improvements, specifications are subject to change without notice.

eic124a1 ©2023 INFICON