



Neutronics

Refrigerant Analysis

APPLICATION GUIDE

REFRIGERANT ANALYZERS & ACCESSORIES

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APPLICATIONS

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- > Portable Automotive Analyzers for R1234yf & R134a
- > Internal Automotive Analyzers for R1234yf & 134a
- > Portable Commercial HVAC Analyzers
- > Sealant Detectors for Automotive Applications

Neutronics Refrigerant Analysis

456 Creamery Way

Exton, PA 19341

USA

PH: (+) 610-524-8800

Fax: (+) 610-524-8807

Email: info@RefrigerantID.com

Web: www.RefrigerantID.com

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Portable Automotive Analyzers for R12 & R134a

RI-2004DX (P/N 7-08-1000-54-0)

Application: R12 and R134a Vehicle & Virgin Cylinder Testing

The Neutronics Ultima ID Model RI-2004DX Refrigerant Analyzer will provide a fast, easy and accurate means to determine refrigerant purity in refrigerant storage cylinders or directly in vehicle air conditioning systems.

Features

Refrigerants: R134a, R12, R22, HC, Air

Test Time: 60 Seconds

Calibration: Automatic

Sample Type: Vapor Only 300 psig max.

Temperature: 50 – 120 F

Warranty: One Year

The instrument is supplied complete with a R12 and R134a sample hose, a R134a adapter fitting to permit sampling of ACME ported cylinders, a 12 VDC power cord and all required plumbing housed within a rugged, portable, storage case.



Certifications

UL, CE, SAE J1771

Available Accessories

Rechargeable Battery Kit w/ Charger P/N 6-02-6001-04-1

Spare Battery P/N 6-02-6001-04-0

AC Power Supply P/N 6-01-6001-13-0

Spare Replacement Parts

6-02-6000-08-0 Replacement Sample Filter

6-02-6000-02-0 Replacement R12 Hose (1/4" Flare)

6-02-6000-09-0 Replacement R134a Hose

4-03-5004-07-0 Replacement R134a Tank Adapter

6-01-6001-08-0 Replacement 12 VDC Battery Clips

RI-2004DXP (P/N 7-08-1000-55-0)

Application: R12 and R134a Vehicle & Virgin Cylinder Testing

The Neutronics Ultima ID Model RI-2004DXP Refrigerant Analyzer will provide a fast, easy and accurate means to determine refrigerant purity in refrigerant storage cylinders or directly in vehicle air conditioning systems.

Features

Refrigerants: R134a, R12, R22, HC, Air

Test Time: 60 Seconds

Calibration: Automatic

Sample Type: Vapor Only 300 psig max.

Temperature: 50 – 120 F

Warranty: One Year

The instrument is supplied complete with a **Built In Printer**, R12 and R134a sample hoses, a R134a adapter fitting to permit sampling of ACME ported cylinders, a 12 VDC power cord and all required plumbing housed within a rugged, portable, storage case.

Certifications

UL, CE, SAE J1771

Available Accessories

Rechargeable Battery Kit w/ Charger P/N 6-02-6001-04-1

Spare Battery P/N 6-02-6001-04-0

AC Power Supply P/N 6-01-6001-13-0

Spare Replacement Parts

6-02-6000-08-0 Replacement Sample Filter

6-02-6000-02-0 Replacement R12 Hose (1/4" Flare)

6-02-6000-09-0 Replacement R134a Hose

4-03-5004-07-0 Replacement R134a Tank Adapter

6-01-6001-08-0 Replacement 12 VDC Battery Clips

5-03-1000-08-0 Replacement Printer Paper Roll



Mini ID R134a (P/N 7-08-1000-62-0)

Application: R134a Vehicle & Virgin Cylinder Testing

The Neutronics Mini ID R134a Refrigerant Identifier will provide an easy and accurate means to determine if the R134a refrigerant in vehicle air conditioning systems or Virgin refrigerant cylinders is 95% pure or greater.

Features

Refrigerants: R134a

Test Time: 100 Seconds

Calibration: Manual

Sample Type: Vapor Only 300 psig max.

Temperature: 50 – 120 F

Power: 12 VDC

Warranty: One Year

A “GREEN” PASS LED is illuminated for R134a purity greater than 95% while a “RED” FAIL LED is illuminated for R134a with a purity of less than 95%.

The instrument is supplied complete with a R134a sample hose, a 12 VDC power cord and all required plumbing housed within a rugged, portable instrument.



Certifications

UL, CE, SAE J1771

Available Accessories

AC Power Supply P/N 6-01-6000-74-0

R134a Tank Adapter P/N 4-03-5004-07-0

Spare Replacement Parts

6-01-6001-23-1 Replacement Flow Restrictor Hose

6-02-6001-26-0 Replacement Flow Restrictor Hose (3 Pack)

6-01-6000-75-0 12 VDC Battery Clips

Portable Automotive Analyzers for R1234yf & R134a

RI-2012yf (P/N 7-08-1234-24-0)

Application: R1234yf and R134a Vehicle & Virgin Cylinder Testing

The Neutronics Ultima ID model RI-2012yf Refrigerant Analyzer will provide a fast, easy and accurate means to determine refrigerant purity in refrigerant storage cylinders or directly in vehicle air conditioning systems.

Features

Refrigerants: R134a, R1234yf, R22, HC, Unknown, Air

Test Time: 90 Seconds

Calibration: Automatic

Interface: USB (SAE J2843 Compliant)

Sample Type: Vapor Only 300 psig max.

Temperature: 50 – 120 F

Warranty: One Year



The instrument is supplied complete with an R1234yf sample hose, and R134a sample hose, an AC power supply, tank adapters for both R1234yf and R134a, an internal rechargeable battery and all required plumbing housed within a rugged, portable, storage case.

Certifications

UL, CE, SAE J2912

Available Accessories

N/A

Spare Replacement Parts

6-02-6000-08-0 Replacement Sample Filter

6-02-6001-28-0 Replacement R134a Hose w/ Coupler

6-02-6001-29-1 Replacement R1234yf Hose w/ Coupler

6-02-6001-18-4 Replacement R1234yf Flow Restrictor Hose

6-02-6001-32-0 Replacement R134a Flow Restrictor Hose

4-03-5004-07-0 Replacement R134a Tank Adapter

2-02-5100-29-2 Replacement R1234yf Tank Adapter

6-01-6001-13-0 Replacement AC Power Supply

2-06-7000-36-1 Replacement USB Cable

RI-2012yfp (P/N 7-08-1234-25-0)

Application: R1234yf and R134a Vehicle & Virgin Cylinder Testing

The Neutronics Ultima ID model RI-2012yfp Refrigerant Analyzer will provide a fast, easy and accurate means to determine refrigerant purity in refrigerant storage cylinders or directly in vehicle air conditioning systems.

Features

Refrigerants: R134a, R1234yf, R22, HC, Unknown, Air

Test Time: 90 Seconds

Calibration: Automatic

Interface: USB (SAE J2843 Compliant)

Sample Type: Vapor Only 300 psig max.

Temperature: 50 – 120 F

Warranty: One Year



The instrument is supplied complete with a ***Built In Printer***, R1234yf sample hose, R134a sample hose, an AC power supply, tank adapters for both R1234yf and R134a, an internal rechargeable battery and all required plumbing housed within a rugged, portable, storage case.

Certifications

UL, CE, SAE J2912

Available Accessories

N/A

Spare Replacement Parts

6-02-6000-08-0 Replacement Sample Filter

6-02-6001-28-0 Replacement R134a Hose w/ Coupler

6-02-6001-29-1 Replacement R1234yf Hose w/ Coupler

6-02-6001-18-4 Replacement R1234yf Flow Restrictor Hose

6-02-6001-32-0 Replacement R134a Flow Restrictor Hose

4-03-5004-07-0 Replacement R134a Tank Adapter

2-02-5100-29-2 Replacement R1234yf Tank Adapter

6-01-6001-13-0 Replacement AC Power Supply

2-06-7000-36-1 Replacement USB Cable

5-03-1000-08-0 Replacement Printer Paper Roll

Internal Automotive Analyzers for R1234yf & R134a

EID-1234yf-VDA (P/N 7-08-1234-00-2)

Application: Installation into VDA Compliant AC Service Machines

Designed to meet the requirements of the German VDA, the EID-1234yf-VDA internal analyzer is an OEM product supplied to the AC Service Machine Manufacturers.

Features

Refrigerants: R1234yf

Set point: 95.0%

Output: Pass/Fail

Test Time: 60 Seconds

Calibration: Automatic

Interface: USB, RS232

Sample Type: Vapor Only 300 psig max.

Temperature: 50 – 120 F

Warranty: One Year

A Mounting bezel provides a visually pleasing finished appearance to the module and allows access to the Sample Filter from the visible surface of the AC Service Machine.



Certifications

UL, CE, VDA

Available Accessories

N/A

Spare Replacement Parts

6-02-6000-08-0 Replacement Sample Filter

6-02-6001-18-1 Replacement R1234yf Flow Restrictor Hose

EID-1234yf-SAE (P/N 7-08-1234-02-2)

Application: Installation into SAE J2843 Compliant AC Service Machines

Designed to meet the requirements of SAE J2927, the EID-1234yf-SAE internal analyzer is an OEM product supplied to the AC Service Machine Manufacturers.

Features

Refrigerants: R1234yf
Set point: 98.0%
Output: R1234yf, R134a, R22, HC, Air
Test Time: 60 Seconds
Calibration: Automatic
Interface: USB, RS232
Sample Type: Vapor Only 300 psig max.
Temperature: 50 – 120 F
Warranty: One Year



A Mounting bezel provides a visually pleasing finished appearance to the module and allows access to the Sample Filter from the visible surface of the AC Service Machine.

Certifications

UL, CE, SAE J2927

Available Accessories

N/A

Spare Replacement Parts

6-02-6000-08-0 Replacement Sample Filter
6-02-6001-18-1 Replacement R1234yf Flow Restrictor Hose
1-16-1013-00-2 Replacement Air Sensor

EID-1234yf/134a-SAE (P/N 7-08-1234-26-1)

Application: Installation into SAE J2843 or J3030 Compliant AC Service Machines

Designed to meet the requirements of SAE J2912, the EID-1234yf/134a-SAE internal analyzer is an OEM product supplied to the AC Service Machine Manufacturers.

Features

Refrigerants: R1234yf, R134a

Set point: 98.0%

Output: R1234yf, R134a, R22, HC, Air

Test Time: 60 Seconds

Calibration: Automatic

Interface: USB, RS232

Sample Type: Vapor Only 300 psig max.

Temperature: 50 – 120 F

Warranty: One Year

A Mounting bezel provides a visually pleasing finished appearance to the module and allows access to the Sample Filter from the visible surface of the AC Service Machine.



Certifications

UL, CE, SAE J2912

Available Accessories

N/A

Spare Replacement Parts

6-02-6000-08-0 Replacement Sample Filter

6-02-6001-18-1 Replacement R1234yf Flow Restrictor Hose

1-16-1013-00-2 Replacement Air Sensor

EID-134a (P/N 7-08-1000-70-0)

Application: Installation into R134a AC Service Machines

Designed for installation into R134a AC Service Machines, the EID-134a internal analyzer is an OEM product supplied to the AC Service Machine Manufacturers.

Features

Refrigerants: R134a
Set point: 98.0%
Output: R12, R134a, R22, HC, Air
Test Time: 60 Seconds
Calibration: Automatic
Interface: USB, RS232
Sample Type: Vapor Only 300 psig max.
Temperature: 50 – 120 F
Warranty: One Year



A Mounting bezel provides a visually pleasing finished appearance to the module and allows access to the Sample Filter from the visible surface of the AC Service Machine.

Certifications

UL, CE

Available Accessories

N/A

Spare Replacement Parts

6-02-6000-08-0 Replacement Sample Filter
6-02-6001-32-0 Replacement R134a Flow Restrictor Hose
1-16-1013-00-2 Replacement Air Sensor

Portable Commercial HVAC Analyzers

RI-2004HV (P/N 7-08-1000-60-0)

Application: R12, R134a & R22 System, Virgin & Recovered Cylinder Testing

The Neutronics Ultima ID Model RI-2004HV Refrigerant Analyzer will provide a fast, easy and accurate means to determine refrigerant purity in AC Systems as well as both Virgin and Recovered refrigerant cylinders.

Features

Refrigerants: R134a, R12, R22, HC, Air

Test Time: 60 Seconds

Calibration: Automatic

Sample Type: Vapor Only 300 psig max.

Temperature: 50 – 120 F

Warranty: One Year

The instrument will also indicate if the refrigerant tested matches the profile of pure R410a. (Not for use with R404a or R507.)

The instrument is supplied complete with a 1/4" Flare sample hose, an AC power supply and all required plumbing housed within a rugged, portable, storage case.



Certifications

UL, CE

Available Accessories

Rechargeable Battery Kit w/ Charger P/N 6-02-6001-04-1

Spare Battery P/N 6-02-6001-04-0

Spare Replacement Parts

6-02-6000-08-0 Replacement Sample Filter

6-02-6000-02-0 Replacement R12 Hose (1/4" Flare)

6-01-6001-13-0 Replacement AC Power Supply

RI-2004HVP (P/N 7-08-1000-60-1)

Application: R12, R134a & R22 System, Virgin & Recovered Cylinder Testing

The Neutronics Ultima ID Model RI-2004HVP Refrigerant Analyzer will provide a fast, easy and accurate means to determine refrigerant purity in AC Systems as well as both Virgin and Recovered refrigerant cylinders

Features

Refrigerants: R134a, R12, R22, HC, Air

Test Time: 60 Seconds

Calibration: Automatic

Sample Type: Vapor Only 300 psig max.

Temperature: 50 – 120 F

Warranty: One Year

The instrument will also indicate if the refrigerant tested matches the profile of pure R410a. (Not for use with R404a or R507.)

The instrument is supplied complete with a **Built In Printer**, a ¼" Flare sample hose, an AC power supply and all required plumbing housed within a rugged, portable, storage case.



Certifications

UL, CE

Available Accessories

Rechargeable Battery Kit w/ Charger P/N 6-02-6001-04-1

Spare Battery P/N 6-02-6001-04-0

Spare Replacement Parts

6-02-6000-08-0 Replacement Sample Filter

6-02-6000-02-0 Replacement R12 Hose (1/4" Flare)

6-01-6001-13-0 Replacement AC Power Supply

5-03-1000-08-0 Replacement Printer Paper Roll

RI-700H (P/N 7-08-1000-71-0)

Application: For Testing Multiple Commercial Refrigerants in Systems or Virgin & Recovered Cylinders

The Neutronics Ultima ID Pro Model RI-700H Refrigerant Analyzer will provide a fast, easy and accurate means to determine refrigerant purity in AC Systems as well as both Virgin and Recovered refrigerant cylinders.

Features

Analyzed Refrigerants: R22, R32*, R134a, R404A, R407C, R410A, HC (Hydrocarbons), Air

Test Time: 180 Seconds

Calibration: Automatic

Sample Type: Vapor or Liquid.

Temperature: 50 – 120 F

Warranty: One Year

In addition, the instrument has the capability of identifying pure R12, R1234yf, R408A, R409A, R417A, R421A, R421B, R422A, R422B, R422C, R427A and HC (R600, R600a, R290).



The instrument is supplied complete with a Built-In Printer, a ¼” Flare sample hose, an AC power supply, internal LiFe Battery and all required plumbing housed within a rugged, portable, storage case. A USB port is provided for remote software updating of the instrument.

Certifications

UL, CE

Available Accessories

N/A

Spare Replacement Parts

6-02-6000-08-0 Replacement Sample Filter

6-01-6001-13-0 Replacement AC Power Supply

6-01-6001-26-0 Replacement Flow Restrictor Hose (3 Pack)

5-03-1000-08-0 Replacement Printer Paper Roll

6-02-6001-11-0 Replacement 1/4" Flare LP Sample Hose

6-02-6001-17-0 Oil Trap Syringe

* R32 analysis is a feature only available in analyzers manufactured after December 2014. Analyzers manufactured before this date may require additional modifications. Contact the factory for details.

Mini ID R22 (P/N 7-08-1000-63-0)

Application: R22 HVAC System & Virgin Cylinder Testing

The Neutronics Mini ID R22 Refrigerant Identifier will provide an easy and accurate means to determine if the R22 refrigerant in an air conditioning systems or Virgin refrigerant cylinders is 95% pure or greater.

Features

Refrigerants: R22

Test Time: 100 Seconds

Calibration: Automatic

Sample Type: Vapor Only 300 psig max.

Temperature: 50 – 120 F

Power: 9 VDC Battery

Warranty: One Year

A “GREEN” PASS LED is illuminated for R22 purity greater than 95% while a “RED” FAIL LED is illuminated for R22 with a purity of less than 95%.

The instrument is supplied complete with a 1/4” Flare sample hose, and all required plumbing housed within a rugged, portable instrument.



Certifications

UL, CE

Available Accessories

AC Power Supply P/N 6-01-6000-74-0

Spare Replacement Parts

6-01-6001-23-1 Replacement Flow Restrictor Hose

6-01-6001-26-0 Replacement Flow Restrictor Hose (3 Pack)

Automotive Sealant Detection Kit

ACSD (P/N 7-08-1000-51-0)

Application: R12 and R134a Passenger Vehicle Testing

The Neutronics ACSD Sealant Detection kit is an inexpensive way to determine if active harmful sealant is present in the A/C System. The device mimics a small leak on the High Side service port. A flow meter is used to measure the flow of refrigerant through a calibrated orifice. A reduction of flow over the 3 minute test time indicates the presence of active sealant with the potential to harm AC service machines.

The kit comes complete with High Side couplers for both R12 and R134a systems, 10 disposable cartridges, a flow meter, syringe, and hose, housed in a storage case.

Replacement cartridges are available in 25 packs.

Certifications

None

Available Accessories

None

Spare Replacement Parts

7-08-1000-52-0 Replacement Cartridges 25 Pack

6-02-6001-00-0 Spare R134a Coupler Assembly

6-02-6001-01-0 Spare R12 Coupler Assembly

6-02-6001-02-0 Spare Flow meter



