

**RAVG-1**

**Digital Vacuum Gauge**

**Easy as 1 - 2 - 3**

**Connect, Measure, Test**

Robinair proudly introduces one of the most sophisticated Digital Micron (vacuum) Gauges available for field service.

Packaged in the same convenient case as our successful Digital Pressure gauges, this stand alone gauge is compact and can be used anywhere.

The RAVG-1 employs a sophisticated MEMS Pirani type sensor that directly measures flow. Unlike all other field service gauges on the market, the RAVG-1 is NOT affected by temperature.

The RAVG-1 measures vacuum from Atmosphere to 10 microns in 6 different scales, and can withstand overpressure beyond 30 bar. The unit employs an industry first multi-color backlight that functions as an instant go/no go indicator of acceptable vacuum or leakage.

**Features**

- High Resolution and unique backlight indicator make precision readings easy
- Patent Pending design, employs a sophisticated MEMS Pirani sensor
- Range from Atmosphere down to 10 microns
- Measure vacuum in Microns, mmHg, inHg, mBar, Pascals or Torr
- Extremely accurate at low micron levels
- Impact and water resistant case with protective Rubber boot
- Rapid response to changes in vacuum
- Large easy to read 5 digit display
- Auto shut off feature prolongs battery life
- Battery powered
- Integrated "magnetic" hook
- Includes carrying case and tee adapters or in-line connections (1/4" MFL x 1/4" MFL and 1/4" FFL x 1/4" MFL versions)



**First time introduction:**  
3 color backlight display offers at one glance the vacuum process status



**Highlight:**  
Integrated "Magnetic Hook" or connect to a manifold.



Manifold sold separately.

**RAVG-1 Specifications**

Operating Range	Atmosphere to 10 Microns
Resolution	As low as 5 Microns/ 0.005mmHg/0.002inHg/ 0.007mBar/0.66Pa/0.005Torr
Accuracy	As low as +/- 5 % of RDG
Over pressure	~ 31 Bar/450 psi
Measuring Units	Microns/mmHg/inHg/ mBar/Pa/Torr
Display	5 digit STN LCD, 50 x 30 mm with tricolor LED backlight
Power Supply	3 x size "AAA" 1.5 V Batteries
Input Connection	1/8"-27 NPT Male

CE



TIF9010A



TIF9020A

**Slimline Refrigerant Scales**

The TIF Slimline scales offered industry leading accuracy, performance, with the choice of getting the familiar usability and quality in either a 110 pound/50 kg. or 200 pound/100 kg. capacity.

**Features**

- Touch Key controls.
- Three display modes – Lbs./oz.; Decimal Lbs., Kilograms.
- Extremely Accurate.
- Auto Zero.
- Removable platform and control box with prop stand/hanging hook.
- Compact design, completely portable.
- Removable control box with prop stand/hanging hook.
- CE approved.
- Two year warranty.
- Blow molded case.

**Specifications**

	TIF9010A	TIF9020A
Range 15.8 oz., OR	0 lbs. 0.0 oz. to 110 lbs. 0.0 oz., 0.000 lbs. to 110.000 lbs., OR 0.000 kg to 55.000 kgs	0 lbs. 0.0 oz. to 199 lbs. 0.000 lbs. to 199.990 lbs., OR 0.000 kg to 100.000 kg
Resolution	0.1 oz./0.005 lbs./2 grams	0.2 oz./0.010 lbs./4 grams
Accuracy	± 0.5% of reading	± 0.5% of reading ± 1 digit
Operating Temp	32° to 120°F (0° to 49°C)	32° to 120°F (0° to 49°C)
Power Supply	9VDC	9VDC
Battery Life	30 hours	30 hours
Coil Cord Length	6 ft. (1.8m)	6 ft. (1.8m)





TIF9031



TIF9030

**Economy Digital Refrigerant Scale**

- Easy to carry and store.
- Capacity up to 220 lbs. (100 kg). Display shows lbs./oz. and kg.
- High accuracy ( $\pm 0.5$  oz.) and resolution (0.1 oz).
- 9-volt battery power.
- Platform to adapt to most existing tanks (9" x 9").
- Three control keys: On/Off, automatic zeroing, and measurement units.
- Charging and recovery capabilities
- CE approved.
- One-year warranty.



**TIF9030** – Economy digital refrigerant scale.

**TIF9031** – Economy digital refrigerant scale carrying case.

**TIF9055**

**Certified Refrigerant Scale**

- 200 pound OR 100 kg capacity.
- Allows automatic charging or recovery operations.
- Color-coded keypad controls.
- Three display modes – lbs./oz.; decimal lbs.; kilograms.
- Very high resolution – 0.2 oz./0.010 lbs./4 grams.
- Can be used with all refrigerants.
- Advanced charge and recovery modes – uses tare weight and maximum capacity of cylinder to calculate maximum charge/recovery available.
- User programmable memory for up to 99 different stored values.
- "Repeat" charge feature.
- Removable platform and control box with prop stand/hanging hook.
- Compact design – completely portable, battery powered.
- Low battery indicators.
- Five-year warranty.



**Specifications**

Range.....	0 lbs. 0.0 oz. to 219.99 lbs.
.....	0.0 oz., OR 0.000 lbs. to
.....	219.990 lbs., OR 0.000 kg to 100.000 kg
Resolution .....	0.2 oz./0.010 lbs./4 grams
Accuracy.....	$\pm 0.5\%$ of reading
Power Supply .....	Four AA batteries
.....	and one 9V battery
Battery Life .....	30 hours
Max. Solenoid operating pressure .....	500 psi
Operating Temp. ....	32°F to 120°F (0°C to 49°C)
Inlet/Outlet Ports .....	1/4" MFL fittings with
.....	1/2" ACME adapters
Weight .....	Approx. 7 lbs.

**TIF3880X**

**Inspection Camera / Detect and Diagnose**

Introducing the TIF3880X Inspection Camera. With an industry leading 5.5-millimeter camera diameter, technicians can inspect small, hard-to-reach areas normally not accessible when using a large entry point camera. With the added wireless display and ability to record images and video, the TIF3880X is an ideal tool for any HVAC, plumbing, or industrial technician.



**Features:**

- Micro camera transmits images and video to the removable wireless camera to allow viewing of hard-to-reach areas.
- Large 3.5-inch high-resolution color screen for optimal viewing. Detachable 36-inch camera snake with position hold shaft.
- Images and video are recorded on the included SD card and can be viewed on the camera display or transferred to a computer.
- Easy-to-change camera allows for use with various camera sizes and lengths.
- Magnetic display mount allows for hands-free viewing.
- Camera head includes four built-in adjustable LEDs for optimal viewing from light to dark areas.
- IP67-rated camera for complete protection from dust and standard chemicals.
- Unit is powered by removable power pack with four rechargeable AA batteries (batteries and charger included).

**Applications:**

- Inspect HVAC application issues within buildings.
- Examine HVAC equipment for wear or performance issues.
- Locate items in hard-to-see areas or behind walls.
- Inspect heat exchangers for cracks or damage.

TIF3880X Video Scope includes:  
 Magnetic mount for wireless display  
 Rechargeable AA batteries (4),  
 Micro SD card, Battery charger,  
 XvidCodec installation CD,  
 AC power adapter, USB cable,  
 One year warranty, Video out cable,  
 and Protective carry case.



**TIF785**

**Photo Tachometer**

Capable of measuring and recording the rotational, linear and surface speeds. Non-contact function makes it easy to use in hard to reach or tight spaces. Easy to handle palm sized design makes it easy to maneuver when performing traditional contact measurement.



**Features:**

- Both non-contact and contact modes
- Operates at a distance of up to 40 in (100 cm)
- Laser sighting
- Auto ranging/fix decimal
- Ability to capture and store readings
- Low battery indicator

**Specifications:**

**Range:**

Non-Contact:	6.0-99,999 RPM (rev/min)
Contact:	6.0-25,000 RPM (rev/min)

**Accuracy:**

6.0-5,999.9 RPM	$\pm 0.01\%$
5,999.9-99,999 RPM	$\pm 0.05\%$

**Resolution:**

6.0-9,999.9 RPM	0.1 RPM
10,000-99,999 RPM	1 RPM

**Response Time:**

Auto Power Off	After 30 secs. of inactivity
Max/Min/Average	Yes
Memory	40 points
Battery	9V (included)

TIF785 Photo Tachometer includes:  
 Photo Tachometer, Contact adapter,  
 Wheel adapter, Cone adapter,  
 Funnel adapter, 21" reflective tape,  
 and Protective carry case.

