



### SSM1 Super Heat / Sub Cool Meter

The SSM1 measures superheat or subcool with direct connections for temperature and pressure. The SSM1 is programmed with the most common four refrigerants, with data from the NIST-Pro refrigeration database for temperature-pressure values.

#### Measures:

- Pressure from 0~500 psi
- Temperature from -40~400°F

#### Calculates:

- Superheat for low side
- Subcool for high side (TXV systems)
- Measures Temperature & Pressure
- Calculates Super Heat/Sub Cool
- Works with refrigerant types: R22, R134A, R404A, R410A
- 3 Year Limited Warranty



### DRS220 DSMCM Digital Refrigeration Scale & Charge Module



### RLD15 Refrigerant Leak Detector

Also Included in  
this Data Sheet

DMG100, DMG200, DRS220  
DRSCM, HA1, RLD10, RLD15

# FEATURED PRODUCTS



**NEW**

**DRS220**  
*Digital Refrigerant Scale*

**DRSCM**  
*Charging Module*

The DRS220 is the most accurate and precise refrigerant scale available today with features that cannot be found anywhere else. It is ideal for HVAC and refrigeration service, including critical charging of small refrigeration systems. The DRS220 measures weight in both metric and english units, is programmable, and has a built in alarm to indicate a programmed threshold has been exceeded. Attaching the DRS220 to the DRSCM (sold separately) allows automatic refrigerant charging for A/C systems.



**NEW**

**DMG100**  
**DMG200**  
*Digital Micron Gauges*

The UEi DMG100 & DMG200 digital vacuum gauges are the most accurate and precise vacuum gauge available today utilizing patent-pending technology. Both gauges offer in-field calibration, analog bar graphs, easy sensor cleaning and oil contamination sensors.

The DMG100 accurately measures vacuum pressure in Microns, Pascals, Millibar, Millitorr, and mmHg with resolution down to 1 micron. Ideal for the HVAC/R professional, the DMG100 is small, lightweight, rugged and easy to use.

The DMG200 includes all the features of the DMG100 and has increased resolution to 0.1 micron below 9,999, a programmable alarm for unattended evacuation of HVAC/R systems, vacuum leak rate indicator and also measures ambient temperature.

## CAN'T FIND WHAT YOU'RE LOOKING FOR?...

**UEi offers a full line of HVAC/R and Combustion Testing equipment.** We have grouped our products specifically to make it easy to find what you're looking for. Here are a few related products and data sheets. For a complete list visit: [www.ueitest.com](http://www.ueitest.com)

**Product Part # or Group**  
**Digital Temperature Testers**  
**Combustion & Environmental Catalog**  
**Digital Clamp Meters**

**LIT #**  
**L352**  
**L330**  
**L333**

## Functions

## Features

## Includes

## Specifications

### RLD10 Refrigerant Leak Detector

- Detects Industry Standard Refrigerants Including but not limited to:  
R11 R12, R13, R22,R23, R113 R114 R134A, R500, R502 Halons R404A SF6 Perchloroethylene Blends R410A

- Auto zeros when turned on
- Two position sensitivity selector
- LED panel indicates refrigerant leak concentration
- Audible tick rate
- Long gooseneck probe
- One-hand operation
- Automatically detects all existing refrigerant and blends
- 1 Year limited warranty

1 (9V) Battery, Manual

### RLD15 Refrigerant Leak Detector

- Detects Industry Standard Refrigerants Including but not limited to:  
HFC: R-134a, R-410A, R-404A, R-407C, R-507, (R-134a, R410A sensitivity  $\geq 0.05$  oz/yr)  
HCFC:R-22 (R-22 sensitivity  $\geq 0.025$  oz/yr)  
CFC:R-12 Hydrocarbon Blends: HC-12a®, OZ-12a®

- Solid Electrolyte Semiconductor Sensor Technology
- Digital Numeric Leak Size Indicator
- 3 Sensitivity Levels
- Visual LED Leak Alarm
- Whisper Action Pump
- Automatic Calibration & Ambient Level Reset
- Splash Resistant
- 3 Year limited warranty (Includes Sensor)

(5) RLDTF, RLDLS, Batteries 4(AA), Hard Carrying Case, Manual



<b>Sensor</b>	Advanced ionization detection
<b>Sensitivity</b>	.5 oz. per year R134A
<b>Power Supply</b>	9V battery
<b>Battery Life</b>	8 continuous hours
<b>Warm Up Time</b>	< 10 seconds
<b>Response Time</b>	< 1 second
<b>Duty Cycle</b>	Continuous
<b>Probe Length</b>	18 1/2"
<b>Dimensions</b>	8" x 4" x 1 1/2"
<b>Weight</b>	14.1 oz (400g)
<b>Operating Conditions</b>	32° to 120°F (0° to 49°C)
<b>Refrigerants Detected</b>	0 to 80% RH (noncondensing) R11, R12, R13, R22,R23, R113, R114 R134A, R500, R502 Halons R404A SF6 Perchloroethylene Blends R410A

<b>Sensor Life</b>	>300 hours
<b>Response Time</b>	≤ 1 second
<b>Power Supply</b>	4 AA batteries
<b>Battery Life</b>	8 continuous hours
<b>Warm Up Time</b>	< 20 seconds
<b>Response Time</b>	< 1 second
<b>Duty Cycle</b>	Continuous
<b>Probe Length</b>	18"
<b>Numerical Display</b>	7 segment digital (1-9)
<b>Dimensions</b>	4w x 9h x 2d" not including probe
<b>Weight</b>	1.5 lbs
<b>Refrigerants Detected</b>	HFC: R-134a, R-410A, R-404A, R-407C & R-507 (R-134a, R410A sensitivity $\geq 0.05$ oz./yr.) HCFC: R-22 (R-22 sensitivity $\geq 0.025$ oz./yr.) CFC:R-12 Hydrocarbon Blends: HC-12a®, OZ-12a®

### Replacment Parts & Accessories

<b>Sensor Cap</b>	RLDTG (RLD10)
<b>Sensor</b>	RLDSENS (RLD10)
<b>Sensor</b>	RLD15SENS (RLD15)
<b>Sensor Filter (5 pack)</b>	RLDTF (RLD15)
<b>Leak Test Vial</b>	RLDLS (RLD15)



# PRESSURE

## SSM1 Superheat & Subcool Meter



### Measures:

- Pressure from 0-500 psi
- Temperature from -40-400°F

### Calculates:

- Superheat for low side
- Subcool for high side (TXV systems) Refrigerants included for calculations R22, R134a, R404a, R410a

- "T" fitting allows refrigerant to be added or removed with SSM1 connected
- Magnetic mount for hands free use
- Backlit display
- 3 Year limited warranty

ATTPC2, 9V Battery, Manual

## DMG100 DMG200 Digital Micron Gauge



### DMG100

- 1 Micron Resolution
- 0 – 25,000 Micron range

### DMG200

- 0.1 micron resolution below 9,999
- 1 micron from 10 ~ 25,000
- Vacuum Leak Rate Indicator
- Programmable Alarm
- Ambient Temperature Measurement

### DMG100 & DMG200

- Automatic Oil Contamination Sensor
- In-field calibration and calibration test function
- Sensor withstands Overpressure up to 500psi
- Backlit Display with Analog Bar Graph
- Advanced Power Management Up to 300 hour battery life
- 1 Year limited warranty

9V Battery, Manual

## SSM1

<b>Sensor Resolution</b>	0.1psi (2kPa, 0.02bars,mmHg)
<b>Sensing Accuracy</b>	0.5% FS ± 1 least significant digit
<b>Working Pressure</b>	0-500psi (3450 kPa, 34.5bars)
<b>Temperature Sensing Range</b>	-40 to 400°F (-40 to 204°C)
<b>Temperature Accuracy</b>	(at 18°C ~ 28°C, humidity <75 %R.H.): ±(1°F) -40°F ~ 200 °F or ±(0.5°C) -40°C ~ 93°C ±(2°F):200°F ~ 400°C or ±(1°C)93°C ~ 204°C
<b>Operating Environmental Control</b>	32~122°F (0~50°C).

## DMG100

<b>Range</b>	0 – 25,000 Microns (3333 Pa, 33.330 mBar, 25,000 mTorr, 25.000 mmHg)
<b>Vacuum Accuracy</b>	5% of Reading ± 5 Microns
<b>Vacuum Resolution</b>	1 Micron
<b>Warm Up Time</b>	Instant
<b>Response Time</b>	Instant
<b>Power</b>	9V Alkaline Battery
<b>Battery Life</b>	Up to 300 hours
<b>Operating Temperature</b>	10°F – 122°F (-12°C – 50°C)
<b>Dimensions</b>	3" x 3.5" x 1.25"
<b>Weight</b>	6 oz. (170g) including Battery

## DMG100 & DMG200

## DMG200

<b>Range</b>	0 – 25,000 Microns (3333 Pa, 33.330 mBar, 25,000 mTorr, 25.000 mmHg)
<b>Vacuum Accuracy</b>	5% of Reading ± 5 Microns
<b>Vacuum Resolution</b>	1 Micron > 10,000 Microns 0.1 Micron < 10,000 Microns
<b>Warm Up Time</b>	Instant
<b>Response Time</b>	Instant
<b>Power</b>	9V Alkaline Battery
<b>Battery Life</b>	Up to 300 hours
<b>Operating Temperature</b>	10°F – 122°F (-12°C – 50°C)
<b>Dimensions</b>	3" x 3.5" x 1.25"
<b>Weight</b>	6 oz. (170g) including Battery

<b>ATTPC2</b>	K Type Pipe Clamp Adapter (SSM1)
<b>ATTEXT</b>	10' K Type Extensions (SSM1)
<b>T-FITTING</b>	T-Fitting (SSM1)



ATTPC2



ATTEXT



T-FITTING

## DRS220 & DRSCM (Sold Separately) Digital Refrigerant Scale & Charging Module



- DRS220**
- Measures Weight in kgs and lbs
  - Refrigerant Tank Capacity Indicator
- DRSCM**
- Option for automated system charging
  - Set, start and allow the DRSCM to monitor progress
  - Valve closes to stop the flow of refrigerant when target is met

- Large, high-visibility LCD display
- Built-in memory remembers all previous settings
- Rugged, Compact Design
- Long Battery Life
- High Accuracy and Resolution
- Programmable
- Can be calibrated in the field with inexpensive reference weight
- 1 Year limited warranty

4 (AAA) Batteries, Manual

## HA1 Hermetic Compressor Analyzer



- 3 ranges of 250 VAC starting capacitors between 88-301 MFD
- Dual voltage operation of 120/240 VAC

- Indicates continuity and ground faults in motor windings with LED lights
- Free locked rotors by reversing motor action
- Convenient breakout jacks for measuring voltage and resistance
- 1 Year limited warranty

Adapter Cord (ACF1)

## DRS220 & DRSCM

<b>Capacity</b>	100 kilograms (220 Pounds) (2kPa, 0.02bars,mmHg)
<b>Accuracy</b>	0.5% of Reading ± 1 Least Significant Digit
<b>Resolution</b>	2g, 0.005 lbs., 0.1 oz.
<b>Power</b>	4 x 1.5V 'AAA' Alkaline Batteries (6 VDC)
<b>Battery Life</b>	30 hours continuous use 9V Alkaline Battery
<b>Operating Temperature</b>	0°C – 60°C (32°F – 140°F)
<b>Dimensions</b>	10.5" x 10.5" x 1.75"
<b>Weight</b>	2.5 kg (5.5 lbs.)

**DRS220**  
Digital Micron Scale



**DRSCM**  
Digital Charging Module



# RELATED PRODUCTS

## Digital Temperature Testers: Lit # L352

**NEW**



**DT221**  
*Digital Temperature Tester*

**NEW**



**DT222**  
*Dual-Input Temperature Tester*

**NEW**



**INF165**  
*Infrared Thermometer*

**NEW**



**INF195**  
*Infrared Thermometer*

## Digital Clamp Meters: Lit # L333



**DL369**  
*G2PHOENIX PRIME*



**DL379**  
*G2PHOENIX PRO*  
**CH3**  
*Extended Clamp Head For DL379 & DL389*



**DL389**  
*G2PHOENIX PRO*  
**CH3**  
*Extended Clamp Head For DL379 & DL389*



**HVACKIT**  
*HVAC Speciality Kit*

## NOW TWO U.S. SERVICE CENTER LOCATIONS

We are proud to announce the opening of our newest service center located in Indianapolis. This provides the additional resources to respond quickly to calibration, repair or warranty requests. All service shipments received at UEI are scheduled as normal turn around and prioritized as first come first serve to the facility most able to complete the service turn around. Priority service is available by appointment only.

For a service request, please contact us:

**Portland, OR**



**Indianapolis, IN**



**USA Service:** 1-800-547-5740

**CANADA Service:** 1-877-475-0648

Or fill out our **Online Service Request Form**

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