

Accu
Tools™

DS-220

Versatile Digital Scale

User's Guide



Introduction

Thank you for your purchase of the AccuTools™ DS-220 Versatile Digital Scale. The DS220 is the most accurate and precise digital scale available today with features that cannot be found anywhere else.

With the DS-220, you can measure weight or liquid volume in both metric and English units, in addition to using it as a parts counter. The DS-220 is also programmable, and has a built in alarm to indicate a programmed threshold has been exceeded. Attaching the DS-220 to the CM-500 Charging Module (optional, extra) allows automatic refrigerant charging for A/C systems.

Features

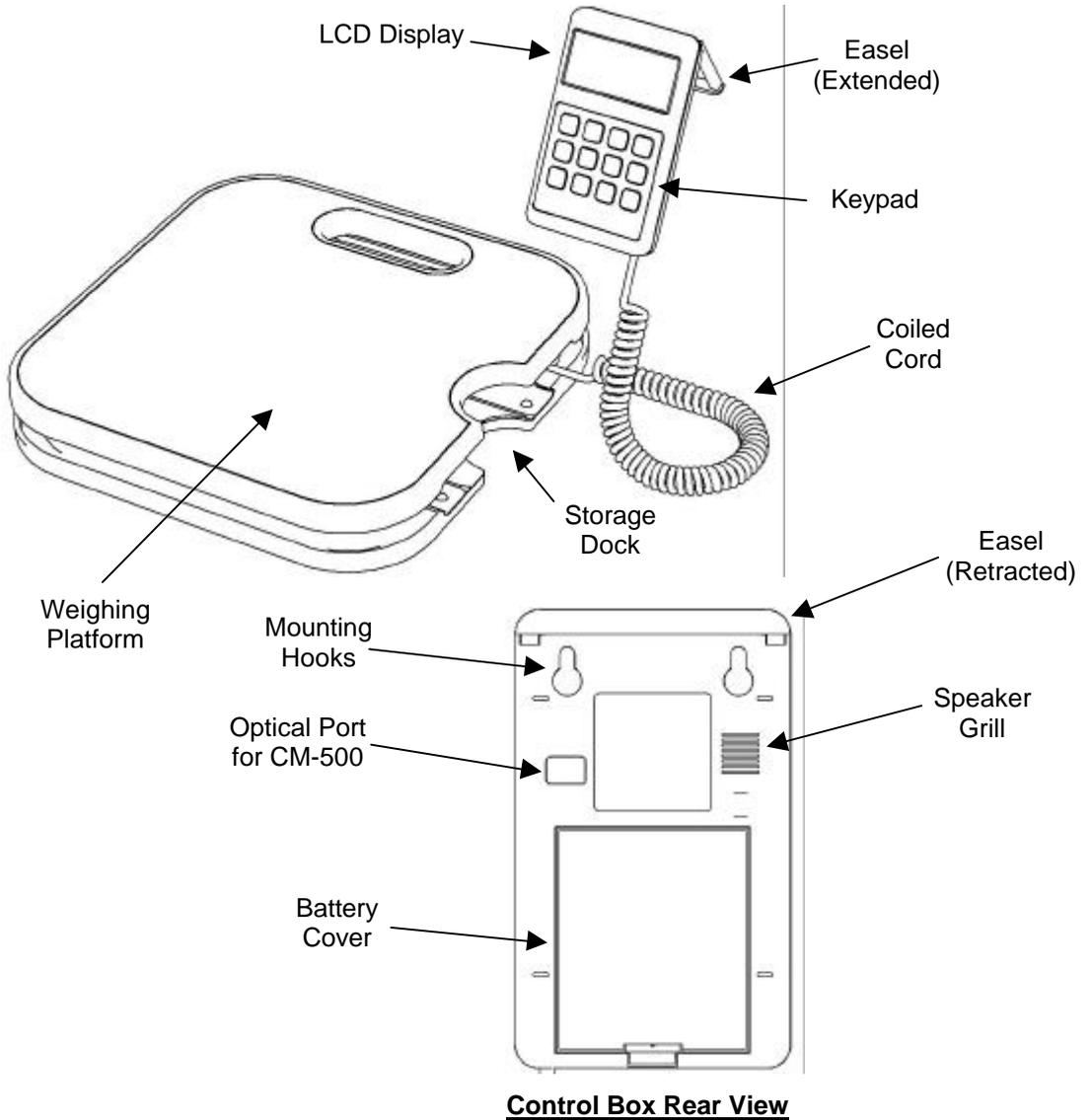
- Large, high-visibility back-lit LCD display
- Measures Mass and Liquid Volume in Metric and English Units
- Functions as a Parts Counter
- Built-in memory remembers all previous settings
- Rugged, Compact Design
- Long Battery Life
- High Accuracy and Resolution
- Programmable
- Can be calibrated in the field with inexpensive reference weights
- Expandable with CM-500 Charging Module
- Ideal for Refrigerant Charge/Recover, Industrial, Shop, and General Home Use.

Specifications

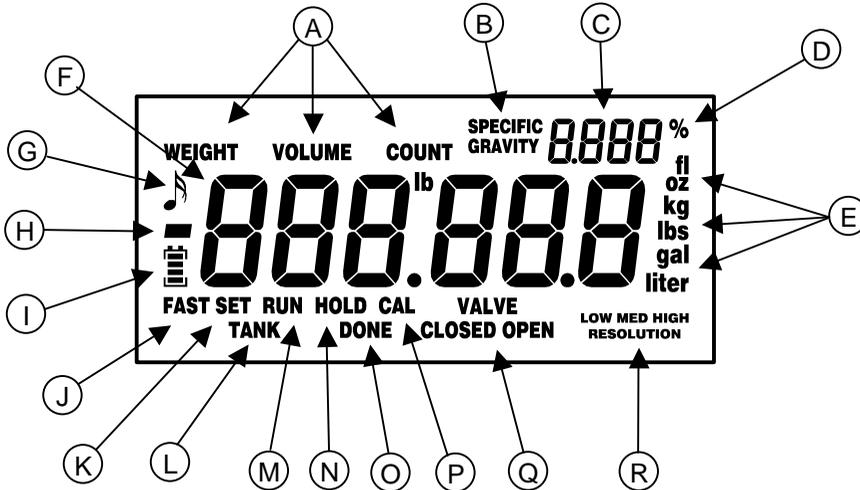
Capacity	100 kilograms (220 Pounds)
Accuracy	0.5% of Reading +/- 1 Least Significant Digit
Resolution	2g, 0.005 lbs., 0.1 oz, 2 ml, 0.001 gal., 0.1 fl. oz.
Specific Gravity Range	0.500 kg/l to 2.000 kg/liter
Power	4 x 1.5V 'AAA' Alkaline Batteries (6 VDC)
Battery Life	30 hours continuous use
Operating Temperature	0°C – 60°C (32°F – 140°F)
Weight	2.5 kg (5.5 lbs.)
Dimensions	26.7 cm x 26.7 cm x 4.5 cm (10.5" x 10.5" x 1.75")

NOTE: To prevent damage, never exceed the rated capacity of the DS-220.

Parts Diagram

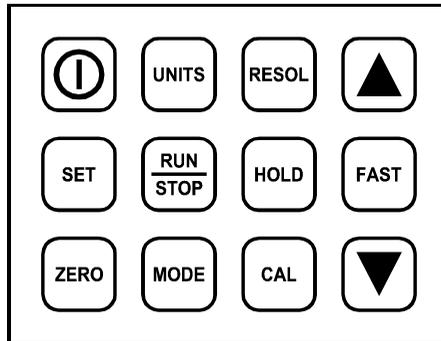


LCD Display



Item	Function
A	Measurement Mode Indicators
B	Specific Gravity Indication (only in Liquid Measurement Mode)
C	Alternate Numeric Display (for Specific Gravity or Tank Capacity)
D	Tank Capacity Percent Indication
E	Units Indicators
F	Main Numeric Display
G	Key "Beep" Indicator
H	"Floating" Negative Indicator (Indicates weight removed from platform)
I	Battery Level Indicator
J	Fast Adjustment Indicator
K	Set Mode Indicator
L	Tank Capacity Mode Indicator
M	Run Mode Indicator
N	Hold Mode Indicator
O	Program Complete Indicator
P	Calibration Mode Indicator
Q	Valve Open/Closed Indicator for use with CM-500 Charging Module
R	Resolution Indicator

Keypad



Press for power-on, press/hold for power off, press/release for backlight.



Press to cycle through weighing modes.



Press to cycle through displayed units.



Press to select low, medium, or high display resolution.



Press to tare ("zero-out") current reading on display.



Use to adjust various settings and programming values.



For faster adjustments. Used in conjunction with  and .



Starts Count Mode training.



"Freezes" display.



Starts programming mode



Activates/Deactivates stored program.

Quick Start

To operate the DS-220 as a basic weigh scale, perform the following steps:

Setup

1. Unpack the scale as described in the “Unpacking the DS-220” section below.
2. Install the batteries into the control box as described in the “Battery Installation” section below.
3. Place the Weighing Platform on a firm, level surface.

4. Turn the DS-220 on by pressing .

5. If desired, turn on the backlight by momentarily pressing .

6. Select the weigh mode by repeatedly pressing . The mode indicators will cycle as follows:

WEIGHT → VOLUME → VOLUME SPECIFIC GRAVITY → COUNT.

7. In Weight or Volume mode, select the proper measurement units by repeated pressing . The units will cycle as follows for each corresponding mode:

WEIGHT:

kilograms → pounds → pounds and ounces → ounces

VOLUME (and VOLUME SPECIFIC GRAVITY):

liters → gallons → fluid ounces

8. In Weight or Volume mode, select the desired display resolution by repeatedly pressing  as described in the RESOLUTION section.

9. If in Volume Specific Gravity Mode, adjust the Specific Gravity as described in the MEASURING VOLUME section.

10. If in Count mode, train the scale as described in the COUNTING section.

Basic Operation

1. If using a container to hold the objects or liquids being measured or counted, place it empty on the center of the platform.
2. Press  to “zero-out” the scale. The display will read zero.
3. Place the material to measure in the container or on the center of the platform.
4. Read the weight, volume, or number of items on the display.
5. A positive number indicates the applied weight is greater than the zero value. A negative number indicates the applied weight is less than the zero value.
6. Repeat steps 1 through 5 as necessary.
7. Turn the DS-220 off by pressing and holding  down until the scale turns off.
8. To conserve battery life, the DS-220 will turn itself off after 30 minutes of inactivity, unless it is currently running a program (see Programming section). The last state of the DS-220 will be restored upon power-up.

Unpacking the DS-220

1. Remove the DS-220 from the carry case.
2. Remove the control box from the storage dock in right side of the weighing platform by pulling the control box firmly from the dock.
3. Unwrap the coiled cord from around the weighing platform. When using the DS-220, ensure the coiled cord does not touch the top of the weighing platform, or inaccuracies may result.
4. If desired, extend the easel at the top back of the control box by pulling it out. The easel may be used straight for hanging, or folded at an angle for resting on a level surface.

Repacking the DS-220

1. Restore the easel to the retracted position.
2. Wrap the coiled cord counter-clockwise around the weighing platform.
3. Push the control box firmly into the storage dock of the weighing platform until it snaps in place.
4. Replace the DS-220 into the carry case.

Battery Installation & Replacement

1. Remove the battery cover from the rear of the control box by compressing tab at the base of the battery cover.
2. If necessary, remove old set of batteries.
3. Insert 4 'AAA' Alkaline batteries. Replace battery cover by aligning tabs and snapping back into place.

IMPORTANT: TO PREVENT DAMAGE TO THE DS-220, CAREFULLY OBSERVE BATTERY POLARITY AS MARKED INSIDE THE BATTERY COMPARTMENT. DO NOT LEAVE DEAD BATTERIES INSIDE THE CONTROL BOX. REMOVE BATTERIES IF THE DS-220 IS NOT TO BE USED FOR AN EXTENDED PERIOD OF TIME.

Resolution

The resolution (minimum incremental weight or volume) that can be displayed by the DS-220 can be adjusted to make the display easier to read. Unstable loads or high winds can cause the display to fluctuate erratically. By reducing the display resolution, external influences can be minimized. As shipped, the DS-220 is set to **MEDIUM** resolution, suitable for most purposes. The resolution can be changed to **LOW**, **MEDIUM** or **HIGH** by repeated pressing  on the keypad. Table 1 illustrates the displayed resolution for each weight and units mode vs. resolution. Regardless of the resolution setting, the scale operates internally with the highest resolution; therefore, only the displayed value is affected.

Mode	Weight				Volume		
Units			Pounds & Ounces	Ounces	Liters	Gallons	Fluid Ounces
Resolution	Kilograms	Pounds	Ounces	Ounces	Liters	Gallons	Ounces
HIGH	0.002 kg	0.005 lbs.	0.1 oz.	0.1 oz.	0.002 liter	0.001 gal.	0.1 fl. oz.
MED	0.005 kg	0.010 lbs.	0.2 oz.	0.2 oz.	0.005 liter	0.002 gal.	0.2 fl. oz.
LOW	0.010 kg	0.020 lbs.	0.5 oz.	0.5 oz.	0.010 liter	0.005 gal.	0.5 fl. oz.

TABLE 1. Resolution Settings

Over range Indication

If the weight applied to the weighing platform exceeds the maximum capacity of the DS-220 (100 kg), a single "1" will be shown on the left side of the display. To prevent damage to the DS-220, immediately remove the weight from the platform.

Measuring Weight

Measuring Weight with the DS-220 is straight forward:

1. Set up the DS-220 as described in the QUICK START Setup section above.
2. Select **WEIGHT** using .
3. Select the desired units of measure using .
4. Use  as necessary, and apply (or remove) weight to be measured.

Measuring Volume

The DS-220 calculates liquid volume based upon the weight of the liquid being measured. In order for this calculation to be accurate, the **specific gravity** of the liquid must be known.

Specific Gravity is defined as the ratio of the density of the liquid to the density of water. Pure water has a specific gravity of 1.000. Other liquids have a specific gravity other than 1.000. Refer to the appendix for a list of common liquids and their corresponding specific gravities.

There are two modes of Volume measurement. The first mode, when only the VOLUME indicator shows on the display, assumes a specific gravity of 1.000 (water). In the second mode, when SPECIFIC GRAVITY, in addition to VOLUME, shows on the display, the specific gravity is adjustable, allowing accurate volume measurement of any liquid. To measure liquid volume, perform the following steps:

1. Setup the DS-220 as described in the QUICK START Setup section above.
2. Select **VOLUME** (if measuring water) or **VOLUME SPECIFIC GRAVITY** (if measuring other than water) using .
3. Select the desired units using .
4. If using specific gravity, adjust the specific gravity shown on the ALTERNATE NUMERIC DISPLAY by pressing and/or holding  or . The specific gravity can be set faster by pressing .
5. Proceed to measure the volume as described in the QUICK START Basic Operation section above.

NOTE: *The range of specific gravity adjustment is from 0.500 to 2.000.*

Determining Specific Gravity

It is possible to determine the specific gravity of a liquid if you already know its volume. Using a graduated container appropriate for the liquid in question, perform the following steps:

1. Ensure the DS-220 is in VOLUME SPECIFIC GRAVITY MODE (refer to the Quick Start section).
2. Place the empty graduated container to the center of the platform.
3. Press  to “zero-out” the weight of the container. The display will read zero.
4. Fill the container to the mark indicating the volume of the liquid in the container.
6. Adjust the specific gravity shown on the ALTERNATE NUMERIC DISPLAY by pressing and/or holding the  or  until the displayed volume equals the known volume of liquid in the container. The specific gravity can be changed faster by pressing .
5. Read the specific gravity of the liquid on the ALTERNATE NUMERIC DISPLAY.

NOTE: *The accuracy of the Specific Gravity calculation will be dependent upon the volume measured. Greater volumes will result in better accuracy.*

USE CARE WHEN MEASURING LIQUIDS WITH THE DS-220. DO NOT SPILL LIQUIDS ONTO THE PLATFORM OR CONTROL BOX, AS THIS CAN DAMAGE THE SCALE. ALWAYS USE EXTREME CARE WHEN HANDLING FLAMMABLE MATERIALS. IN ADDITION, OBSERVE PRECAUTIONS WHEN HANDLING COROSSIVE OR TOXIC MATERIALS, INCLUDING HOUSEHOLD OR INDUSTRIAL CHEMICALS. USE PROTECTIVE CLOTHING, EYEWARE, AND GLOVES AS REQUIRED.

Counting

The DS-220 can count items of equal weight. In order to count accurately, the scale must be “trained” to recognize the weight of the items being counted. To train the DS-220 for counting, perform the following steps:

1. Set up the DS-220 in counting mode as described in the Quick Start Setup section.
2. Remove all objects from the weighing platform.
3. If a bin is going to be used to hold the items being counted, place the empty bin on the center of the platform.
4. Press . The display will flash **n=###**, where ### is a number from 1 to 999.
7. Press and/or hold the  or  to set the number of items being used to train the scale.
The number of items can be set faster by pressing .
5. Count out the number of items as set on the display and place onto the center of the platform or in the bin.
6. Wait about 5 seconds for the platform to stabilize, then press . The display will now show the number of items on the platform.

The DS-220 is now trained to recognize the weight of a single object as one count. This setting will be remembered until it is trained again. Note that  can be used at any time while counting to “zero-out” any existing weight applied to the platform.

NOTE: *A single item can weigh as little as 2 grams. Training for items weighing less than 2 grams will result in “Error” being shown on the Main Numeric Display. To clear the error, retrain the scale with objects weighing more than 2 grams. The total weight of the items being counted at any time may not exceed the total capacity of the scale (100 kg). For best counting accuracy of small items, train with the greatest number of items possible.*

Hold Mode

A special feature of the DS-220 allows the emptying or replacing bins or containers used for weighing or counting without affecting the weight shown on the display. This Hold Mode may be used as follows:

1. In any weigh mode, allow load to settle until display is steady.
2. Press . The **HOLD** indicator will turn on and current weight is now locked on the display.
3. Remove, empty, or replace objects, bins, or containers on the platform.
4. Wait 5 seconds for the new load to stabilize.
5. Press . The **HOLD** indicator will turn off. Measurements will continue from where they left off prior to initiating Hold Mode.

Programming

With the DS-220, a programmable threshold weight, volume, or count will sound an alarm. The alarm will sound when the displayed weight (either positive for increasing weight, or negative for decreasing weight) equals the programmed weight. To program the alarm, perform the following steps:

1. Set up the DS-220 in the desired weigh mode, units, and resolution as described in the Quick Start Setup section above.
2. If measuring decreasing weight, place the objects or container with the objects or material that will be removed on the weighing platform.
3. Press  to start the SET Mode, indicated by the **SET** annunciator on the LCD display. The main numeric display will flash.
4. Press and/or hold the  or  keys to set the desired alarm set point. To change the set point faster, press . This will activate the **FAST SET** mode which will change the set point 10x faster than normal. Press  again to return to the normal speed **SET** mode.
5. Press . The display will automatically change to zero and the **RUN** indicator will show to indicate that the program is running.

- When the applied (or removed) weight exceeds the programmed amount, the alarm will sound and the **DONE** indicator will flash on the display to indicate the program is complete.
- Press any key to stop the alarm.

- To cancel the RUN mode at any time, press the  key.

NOTE: *The RUN mode can only be initiated from the SET mode. If you cancel the RUN mode by pressing , and wish to RUN again, press  (the previous set point will be restored) followed by  again. The display will be zeroed when the program restarts. You may program the SET mode without starting the RUN mode by pressing  after setting the program set point. The new value will be saved until next time the SET mode is activated.  can be used during the RUN mode similarly as described in the HOLD MODE section. The CM-500 Charging Module provides additional functionality when using the RUN mode. Refer to the CM-500 Charging Module User's Guide for details.*

Tank Capacity Mode

Sometime it is convenient to know the relative amount of material remaining in a container (tank). The DS-220's Tank Capacity Mode allows a continuous display of the percentage of material remaining in a tank. In order to compute the percentage accurately, the DS-220 must be trained to know the weights of an empty and full tank. To train the DS-220 Tank Capacity Mode, perform the following steps:

Tank Capacity Mode Training

- While holding  down, press . The **SET TANK** indicator will turn on, and **OFF** will flash on the display. This indicates that the Tank Capacity Mode is currently off.
- Turn the Tank Capacity Mode on by pressing . The display will flash **ON**, and the Alternate Numeric Display and Percent Indicator will turn on.
- Press  to proceed to the first step of training. **0%** will flash in the Alternate Numeric Display indicating that the weight of an empty container must be registered.
- Apply an empty container (or a load representing the weight of an empty container) on the platform. Wait 5 seconds for the load to stabilize, then press . **100%** will flash in the Alternate Numeric Display indicating that the weight of a full container must be registered.

5. Apply a full container (or a load representing the weight of a full container) on the platform.
Wait 5 seconds for the load to stabilize, then press . This completes the training process, and the **SET TANK** indicator will turn off.
6. From this point forward, the Alternate Numeric Display will show the percent of material remaining in the container from 0% to 100%.

NOTE: *The 100% weight must be larger than the 0% weight by at least 200g. If not, "Err" will show on the Alternate Numeric Display. To clear the error, retrain as above using a 100% weight that is at least 200g larger than the 0% weight. During training, the ZERO key may be used to assist in setting the 0% and 100% values. This will have no effect on the training, as the Tank Capacity Mode relies on absolute, not relative, weights.*

Turning Tank Capacity Mode Off

Perform the following steps to turn the Tank Capacity Mode Off:

1. While holding  down, press . The **SET TANK** indicator will turn on, and **ON** will flash on the display. This indicates that the Tank Capacity Mode is currently on.
2. Turn the Tank Capacity Mode off by pressing . The display will flash **OFF**, and the Alternate Numeric Display will turn off.
3. Press  to return to normal operation.

Turning the Tank Capacity Mode On without Re-training

The Tank Capacity Mode can be turned back on without retraining. The DS-220 will remember the previous 0% and 100% set points until the unit is re-trained as above. To turn the Tank Capacity Mode on without re-training, perform the following steps:

1. While holding  down, press . The **SET TANK** indicator will turn on, and **OFF** will flash on the display. This indicates that the Tank Capacity Mode is currently off.
2. Turn the Tank Capacity Mode on by pressing . The display will flash **ON**, and the Alternate Numeric Display and Percent Indicator will turn on.
3. Press  to return to normal operation.

Battery Level Indicator

The battery level indicator shows the relative strength of the batteries. Full power is indicated by four bars. As the batteries are depleted, the number of bars displayed decreases, until no bars are left. At this point, it is necessary to replace the batteries (refer to the Battery Installation section above). If the battery power drops to the point where the DS-220 can no longer function accurately, the alarm will beep 20 times and the power will turn off automatically. When the batteries are replaced, and the scale is turned back on, the DS-220 will resume operation with all previous settings intact.

Calibration

The DS-220 is calibrated at the factory to provide high accuracy. While recalibration should seldom, if ever, be necessary, recalibration is performed easily without sending the product to the manufacturer for service. A known calibration weight (in kilograms) is required to recalibrate the scale, and can be any value between 5 kg and 100 kg. 25 kg is recommended. Best accuracy is obtained by using the largest weight available (i.e. a 50 kg calibration weight will provide 10x better calibration accuracy than a 5 kg calibration weight). In addition, it is necessary to know the weight to within 2 grams.

To recalibrate the DS-220, perform the following steps:

1. Place the DS-220 weighing platform on a firm, level surface.
2. Turn the power to the DS-220 off.
3. Remove all objects from the platform.
4. While holding , press and release . The DS-220 will turn on, and after a few seconds the display will show **SET CAL** and **25.000 kg**.
5. Using  or  adjust the displayed value (in 1g increments) so that it is equal to the weight of the reference calibration weight. Use the  key to adjust in 1 kg increments.
6. Press . A number representing the unloaded platform will appear on the display. Press  to lock in this value. The display will read zero.
7. Apply the calibration weight to the platform. A number representing the applied reference will appear on the display. Allow at least 10 seconds for this number to stabilize.
8. Press . The DS-220 is now recalibrated to the reference weight.
9. Refer to the Quick Start section above for setting the desired Mode, Units, and Resolution.

Restoring Factory Calibration

If you make a mistake recalibrating the DS-220, you can always restore the factory calibration (and factory defaults) of the scale.

To restore the factory settings perform the following steps:

1. Turn the power to the DS-220 off.
2. Remove any objects from the platform.
3. While holding , press and release . The DS-220 will turn on and 10 beeps will sound. The factory settings are now restored.
4. Refer to the Quick Start section above for setting the desired Mode, Units, and Resolution.

NOTE: *When calibrating or restoring the factory calibration,  or  must be held while pressing and releasing . Otherwise, the calibration or calibration restore functions will not operate.*

Sound

As delivered from the factory, the DS-220 beeps when turning on and when keys are pressed. This sound can be muted as follows:

1. Make sure the power is on.
2. While holding , press . The musical symbol on the left of the display will turn off to indicate that the sound has been muted.

Repeat steps 1 and 2 to turn the sound back on.

NOTE: *The MUTE function only affects the power-on and key-beeps. It has no effect on the alarm.*

Applications

This section deals with specific applications for which the DS-220 may be used.

HVAC Service

Because of its high stability and accuracy, the DS-220 is ideal for automotive, commercial, and residential A/C refrigerant charging and recovery. Its high resolution also allows accurate critical charging of small refrigeration systems such as commercial freezers.

To use the DS-220 for refrigerant charging, perform the following steps:

1. Press  to select the WEIGHT weighing mode and  to set the desired display units.
2. If desired, set up the Tank Capacity Mode as described in the Tank Capacity Mode section. This will allow you to know at any time the percent of refrigerant remaining in the refrigerant cylinder.
3. Carefully set the refrigerant cylinder on the weighing platform.
4. Attach the cylinder to the charging manifold via a utility hose. Open the cylinder valve and purge air from the hose.
5. Program the desired refrigerant charge weight as described in the Programming section.

Activate the program by pressing .

6. Open the manifold valve(s).
7. The display will indicate the weight charged as negative, indicating refrigerant is being removed from the charging cylinder.
8. If the refrigerant cylinder empties while charging:
 - a. Close all valves.
 - b. Press  to “freeze” the display (as described in the Hold Mode Section).
 - c. Replace the empty refrigerant cylinder with a full one. Attach and purge hoses.
 - d. Press  to exit the Hold Mode.
 - e. Open manifold valve(s). Charging will continue from where it left off.
9. When charging is complete, the alarm will sound. Close all valves and press any key to cancel the alarm.

NOTE: *The CM-500 Charging Module allows for automatic charging of HVAC system. Please refer to the CM-500 Charging Module User's Manual for details.*

Appendix

Specific Gravity of Common Materials

Fluid	Specific Gravity	Fluid	Specific Gravity	Fluid	Specific Gravity
Acetic Acid Acetone	1.052	Ether	0.716	Oil, Coconut	0.927
Alcohol, ethyl	0.787	Ethylamine	0.683	Oil, Cotton Seed	0.929
Alcohol, methyl	0.789	Ethylene glycol	1.100	Oil, Linseed	0.932
Alcohol, propyl	0.802	12	1.315	Oil, Olive	0.703
Ammonia (aqua)	0.826	Formaldehyde	0.815	Palmitic Acid	0.853
Aniline	1.022	Fuel oil	0.893	Parole	0.969
Benzene	0.876	Furan	1.421	Pentane	0.755
Benzil	1.084	Furforal	1.159	Phenol	1.075
Butane	0.601	Gasoline, natural	0.713	Phytadiene	0.826
Caproic acid	0.924	Gasoline, Vehicle	0.739	Pinene	0.858
Carbolic acid	0.959	Glycerin	1.263	Propane	0.806
Carbon disulfide	1.265	Glycerol	1.129	Propylene	0.516
Carbon tetrachloride	1.589	Heptane	0.681	Propylene glycol	0.968
Carene	0.860	Hexane	0.657	Pyridine	0.982
Chloride	1.560	Hexanol	0.813	Resorcinol	1.272
Chloroform	1.469	Hexene	0.673	Sabiname	0.814
Citric acid	1.665	Hydrazine	0.797	Sea water	1.028
Creosote	1.070	Kerosene	0.820	Silane	0.719
Cresol	1.027	Linolenic Acid	0.902	Sorbaldehyde	0.898
Crude oil, California	0.918	Milk	1.035	Stearic Acid	0.941
Crude oil, Mexican	0.976	Naphtha	0.667	Styrene	0.906
Crude oil, Texas	0.876	Napthalene	0.963	Terpinene	0.850
Cumene	0.862	Nonanol	0.823	Toluene	0.865
Decane	0.728	Octane	0.921	Turpentine	0.871
Dodecane	0.757	Oil, Castor	0.959	Water, pure	1.000

Note: For reference only. Specific Gravities may vary due to temperature.

Warranty and Repair

1 Year Limited Warranty

Core Enterprises, Inc. warrants that this AccuTools™ product conforms to Core Enterprises, Inc. published specifications and will be free from defects in material and workmanship. The duration is for a period of one year from the date of purchase. Core Enterprises, Inc., at its option, will repair or replace this product or any component of the product found to be defective during the warranty period. Replacement will be made with a new or remanufactured product or component. This is your exclusive warranty.

This warranty is valid for the original retail purchaser from the date of initial retail purchase and is not transferable. Keep the original sales receipt. Proof of purchase is required to obtain warranty performance. Core Enterprises, Inc. dealers, service centers, or retail stores selling Core Enterprises, Inc. products do not have the right to alter, modify or any way change the terms and conditions of this warranty.

This warranty does not cover batteries or any other normal wear of parts or damage resulting from any of the following: negligent use or misuse of the product, damage caused by use of the product for purposes other than those for which was designed, use contrary to the operating instructions, disassembly, repair or alteration by anyone other than Core Enterprises, Inc. or an authorized Core Enterprises, Inc. service center. Further, the warranty does not cover: Acts of God, such as fire, flood, lightning, hurricanes and tornadoes.

THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, CONDITIONS OR REPRESENTATIONS, EXPRESS, IMPLIED, STATUTORY OR OTHERWISE, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

Core Enterprises, Inc. shall not be liable for any incidental or consequential damages caused by the breach of any express, implied or statutory warranty or condition.

Except to the extent prohibited by applicable law, any implied warranty or condition of merchantability or fitness for a particular purpose is limited in duration to the duration of the above warranty.

Core Enterprises, Inc. shall not be liable for any damages of any kind resulting from the purchase, use or misuse of, or inability to use the product including incidental, special, consequential or similar damages or loss of profits, or for any breach of contract, fundamental or otherwise, or for any claim brought against purchaser by any other party.

Some states or jurisdictions do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitations or exclusion may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights that vary from state to state or jurisdiction to jurisdiction.

How to Obtain Warranty and Repair Service

To obtain warranty or repair service, please call (954) 227 0781 to obtain a RMA number. For warranty service, a legible copy of the original receipt must be sent along with the RMA Form. Any package received without this RMA number will be refused. The returned product must be properly packaged and insured against shipping damage. Any shipping damage resulting from improper packaging shall be the responsibility of the Purchaser. The repaired or replaced product will be returned to Purchaser, freight prepaid via UPS ground only. Repaired or replaced units carry an additional 90 days warranty.



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