

# TIF9020A Electronic Scale

**NOTE:** False readings may occur if the scale is used in environments having high electrical noise. False readings may also occur if the cylinder touches the case or controls, or if anything touches the platform, especially the cord to the control box.

## SETUP

- Place the unit on a firm and level surface.
- Remove the control box from the case in order to provide clearance.
- Switch unit on by pushing the **ON/OFF** button.
- Select the desired unit of measure by pressing and releasing the **UNITS** button. Three scales are available:  
lbs./oz. (0 lbs. 0.0 oz.)  
decimal pounds (0.000 lbs.)  
kilograms (0.000 kg)

## OPERATION

- Carefully place refrigerant cylinder in center of the platform.
- Connect refrigerant cylinder to a charging manifold via utility hose if charging refrigerant, or to a recovery machine if recovering refrigerant.
- Open refrigerant tank valve. Purge air from hoses.
- Press **ZERO** button; display changes to zero.
- Open manifold valve(s), or turn on recovery unit. Refrigerant begins to flow, and display indicates the weight being removed (if charging) or added (if recovering). A minus sign (-) appears if weight is being removed.
- Monitor the display; when desired charge or maximum allowable fill is reached, close the cylinder valve and manifold valves, and/or switch off the recovery unit.
- When operation is complete, turn unit off by pushing the **ON/OFF** button. Close cylinder valve, disconnect hose(s), and store the unit.

## LOW RESOLUTION MODE

In normal operating mode, the high resolution of the scale may lead to noticeable fluctuations in the reading caused by weight shifts or wind. To improve this situation, a low resolution mode may be activated.

- With scale switched on, with any unit or weight displayed, press and hold the **UNITS** button.
- The enunciators (units of measure) will begin to flash.
- Release the button and continue normal operation. Resolution is now reduced by a factor of 5 (1.0 oz./0.050 lbs./20 g) and will provide stable readings under extreme conditions.
- To return to the normal resolution mode, depress and hold the **UNITS** button until the enunciators stop flashing.

## WEIGHT MEASUREMENTS

The unit may be used strictly as a weight scale.

- Follow steps 1 through 4 in Setup.
- Press the **ZERO** button. Display changes to zero.
- Carefully place the object (e.g., cylinder) that is to be weighed directly in the center of the platform.
- Gross weight will be displayed.
- When weighing has been completed, turn unit off. This feature is especially useful when recovering. To calculate the amount of refrigerant in a tank, subtract the "Tare" weight (marked on cylinder) from the displayed amount to find the quantity of refrigerant in the cylinder.

## OVER-RANGE INDICATION

If the gross weight applied to the platform exceeds the specified range, the unit will display a single 1 at the left of the display.

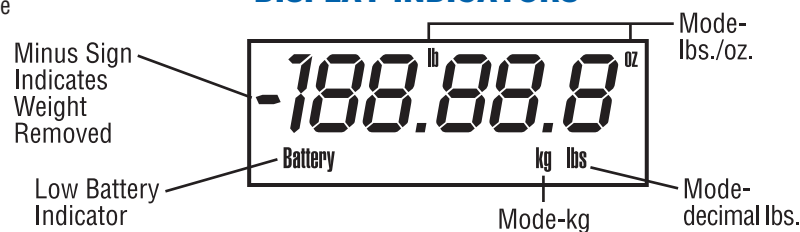
## BATTERY INSTALLATION

The BATTERY enunciator will appear when the battery needs replacing. A display of "---" indicates battery voltage insufficient for operation. Replace battery in order to resume operation.

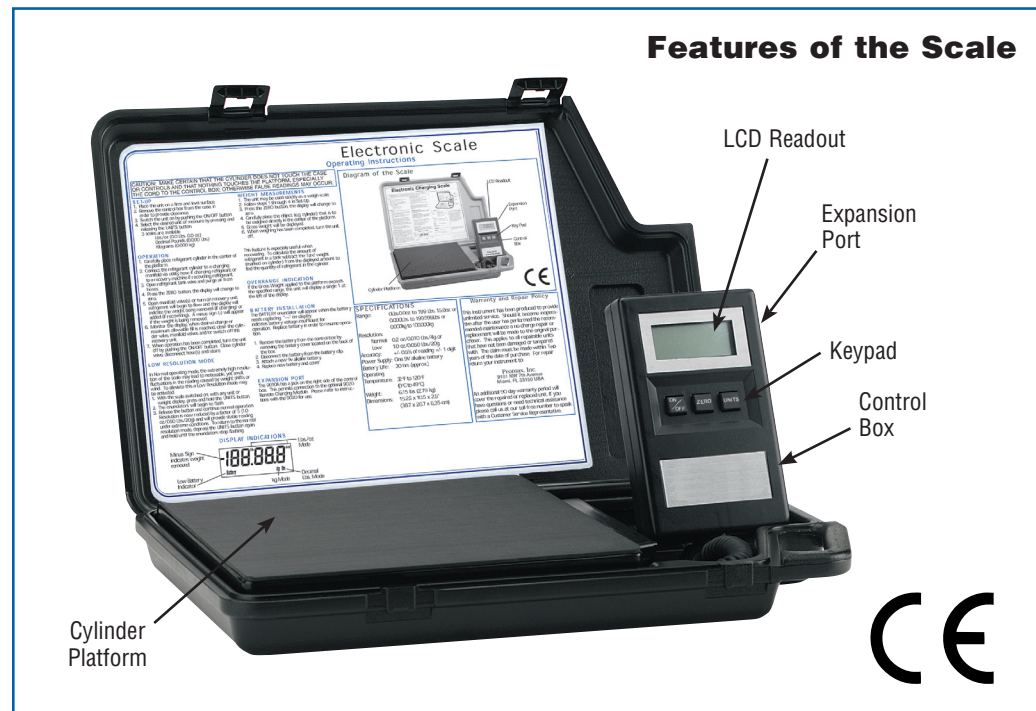
- Remove battery from control box by removing the battery cover located on the back of the box.
- Disconnect the battery from the battery clip.
- Attach a new 9V alkaline battery to the clip.
- Install new battery and cover.

Designed and engineered in the USA.  
Manufactured in China.

## DISPLAY INDICATORS



## Features of the Scale



## SPECIFICATIONS

<b>Range:</b>	0 lbs. 0.0 oz. to 199 lbs. 15.8 oz. 0.000 lbs. to 199.990 lbs. 0.000 kg to 100.000 kg
<b>Resolution:</b>	Normal: 0.2 oz. / 0.010 lbs. / 4 g Low: 1.0 oz. / 0.050 lbs. / 20 g
<b>Accuracy:</b>	± 0.5% of reading ± 1 digit
<b>Power Supply:</b>	One 9V alkaline battery
<b>Battery Life:</b>	30 hrs. (approx.)
<b>Operating Temperature:</b>	32°F to 120°F (0°C to 49°C)
<b>Weight:</b>	6.15 lbs. (2.79 kg)
<b>Dimensions:</b>	15.25 x 10.5 x 2.5" (38.7 x 26.7 x 6.35 cm)

## Warranty and Repair Policy

This instrument has been designed to provide unlimited service. Should it become inoperative after the user has performed recommended maintenance, a no-charge repair or replacement will be made to the original purchaser. This applies to all repairable units that have not been damaged or tampered with. The claim must be made within **TWO** years of date of purchase.

An additional 90-day warranty period will cover the repaired or replaced unit. If you have questions or need technical assistance, call toll-free to speak with a Customer Service Representative: (800) 327-5060.



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