

# CLS-420 Cargo Lift Scale

## Operator Card



**Do not open the indicator enclosure!**

Refer all repairs and modifications to a distributor or service technician.

### Front Panel Keypad

The 420 indicator LED annunciators, keypad, and normal mode key functions are shown in the illustration below. LED annunciators and basic indicator operations are described on this card.



Figure 1. CLS-420 Front Panel, Showing LED Annunciators and Normal Mode Key Functions

### LED Annunciators

The 420 display uses a set of six LED annunciators to provide additional information about the value being displayed:

- **Gross** and **Net** annunciators are lit to show if the displayed weight is in gross or net.
- Center of zero (→0←) – lights when the scale is zeroed (gross weight is within 0.25 graduations of zero).
- Standstill (▲▲) – indicates the scale is at standstill or within the specified motion band. Some operations, including tare functions and printing, can only be done when the standstill symbol is displayed.
- **lb** and **kg** – indicate the units associated with the displayed value: lb = pounds, kg = kilograms.
- The displayed units can also be set to short tons (tn), metric tons (t), ounces (oz), grams (g), or **NONE** (no units information displayed). The **lb** and **kg** LEDs function as primary and secondary unit annunciators for some combinations of primary and secondary units. If neither primary nor secondary units are lb or kg the **lb** is lit for primary units, the **kg** is lit for secondary units.

Primary Unit	Secondary Unit						
	lb	kg	oz	g	tn	t	none
lb	lb / lb	lb / kg	lb	lb	lb / kg		
kg	kg / lb	kg / kg	kg	kg	lb / kg		
oz	oz / lb	oz / kg	oz / oz	oz / g	oz / kg		
g	g / lb	g / kg	g / oz	g / g	g / kg		
tn	lb / kg	lb / kg	lb / oz	lb / g	lb / lb	lb / kg	lb / kg
t					lb / kg	lb / lb	lb / kg
none					lb / kg	lb / kg	lb / lb


Table 1. Units Annunciators, Showing Primary / Secondary LEDs Used for All Configurations




## Indicator Operations

Basic 420 operations are summarized below.




### Toggle Gross/Net Mode

Press  to toggle the display mode between gross and net. If a tare value has been entered or acquired, the net value is the gross weight minus the tare.



### Toggle Units

Press  to switch between primary and secondary units.



### Zero Scale

1. In gross mode, remove all weight from the scale and wait for  to light.
2. Press .  lights to indicate the scale is zeroed.

### Acquire Tare

1. Place a container on the scale and wait for  to light.
2. Press  to acquire the tare weight of the container. **Net** weight is displayed and the Net LED is lit.

### Remove Stored Tare Value

1. Remove all weight from the scale and wait for  to light.
2. Press . **Gross** weight is displayed and the Gross LED is lit.

### Set Date

1. In the front panel setup mode, use the arrow keys to toggle to **DATE**.
2. Press the **Down** arrow or **Enter** to enter the date in the format configured for the indicator.

### Set Time

1. In the front panel setup mode, use the arrow keys to toggle to **TIME**.
2. Press the **Down** arrow or **Enter** to enter the time in 24-hour format, then press the **Enter** key to save that value.

### Display Accumulator

1. Hold the (MODE) **GROSS/NET** key for three seconds to display the accumulated value if enabled in configuration. The accumulated value will be displayed for about 10 seconds.
2. To clear the accumulator, press the **CLR** key twice while the accumulated value is being displayed.



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