CLS-420 Cargo Lift Scale

Operator Card

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.
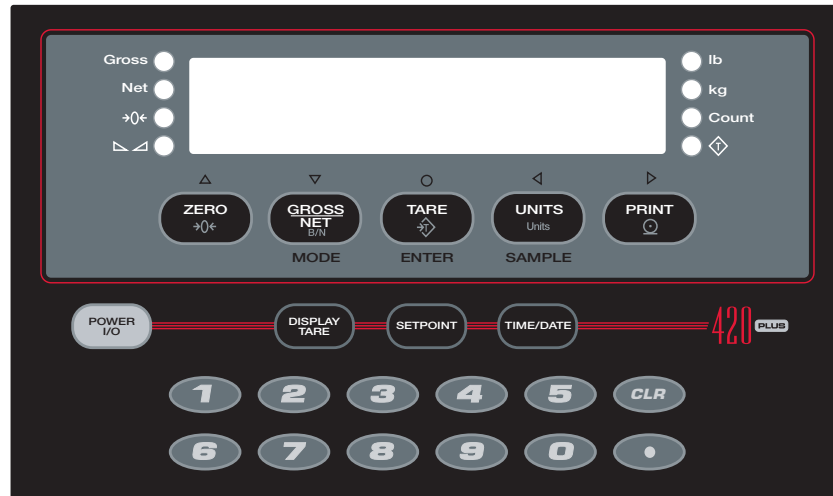

Figure 1. CLS-420 Front Panel, Showing LED Annunciators and Normal Mode Key Functions

LED Annunciators

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

- *Gross* and *Net* annunciators are lit to show whether the displayed weight is a gross or net weight.

- Center of zero (→0←): Gross weight is within 0.25 graduations of zero. This annunciator lights when the scale is zeroed.

- Standstill (◣◢): 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 shown.

- *lb* and *kg* annunciators indicate the units associated with the displayed value: lb=pounds and 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 units annunciators for some combinations of primary and secondary units. If neither primary nor secondary units are lb or kg the *lb* annunciator is lit for primary units, *kg* for secondary units. Table 1 on page 2 shows which annunciators are used for all combinations of configured primary and secondary units.

- The *Count* annunciator is lit to show the indicator is in piece count mode.

- The Tare Acquired (⟨**T**⟩) lights to show that a tare value was entered.

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 CLS-420 operations are summarized below:

Toggle Gross/Net Mode/Piece Count

Press the **GROSS/NET** key to switch the display mode from gross to net, or from net to gross. If a tare value has been entered or acquired, the net value is the gross weight minus the tare.

Gross mode is shown by the *Gross* annunciator; net mode is shown by the *Net* annunciator.

Toggle Units

Press the **UNITS** key to switch between primary and secondary units. The approriate units LED to the right of the display is lit.

Zero Scale

1. In gross mode, remove all weight from the scale and wait for the standstill annunciator (▵ ▵).

2. Press the **ZERO** key. The center of zero (→0←) annunciator lights to indicate the scale is zeroed.

Acquire Tare

1. Place container on scale and wait for the standstill annunciator (▵ ▵).
2. Press **TARE** to acquire the tare weight of the container. The indicator switches to net mode.

Enter Tare (Keyed Tare)

1. Use the numeric keypad to enter the tare value, then press the **TARE** key.

2. Net weight is displayed and the (⊤) annunciator lights to show the tare value was entered.

Remove Stored Tare Value

1. Remove all weight from the scale and wait for the standstill annunciator (▵ ▵).

2. Press the **TARE** key. The (⊤) annunciator goes off, indicating the tare value has been removed.

NOTE: Indicators with the *REGULA* parameter set to NONE or NTEP can clear a stored tare value using the following procedure:

3. Press **DISPLAY TARE** to show the stored tare value.
4. Press the **CLEAR** key twice to remove the stored tare.

Display or Change Time

To display the date, press the **TIME/DATE** key once; press **TIME/DATE** a second time to display the time.

To set the date, press the **TIME/DATE** key once. Use the numeric keypad to enter the date, then press the **ENTER** key. Use the numeric keypad to enter the date in the same format configured for the indicator: *MMDDYY*, *DDMMYY*, or *YYMMDD*.

To set the time, press the **TIME/DATE** key twice. Use the numeric keypad to enter the time in 24-hour format, then press the **ENTER** key.

Print Ticket

1. Wait for standstill annunciator (▵ ▵).
2. Press the **PRINT** key to send data to the serial port.