The CLS-IM Series is the first NTEP approved forklift scale that can weigh while the forklift truck is in motion. The CLS-IM captures and holds a Legal for Trade weight, allowing your operating software to associate the weight with each transaction. Eliminating the need to stop and capture a stable weight for every pallet is a tremendous benefit to operational efficiencies.

The CLS-IM Series provides communications to a vehicle mount or handheld device using RS-232 or Bluetooth technology, thus eliminating the need for a traditional weight indicator in the cab.

General Specifications

- NTEP Certified at 5,000 x 5 lb capacity and resolution: COC # 06-074
- 16 in Class II forklift carriage
- 42 in fork length
- Pitch and Roll Characteristics:
    - 5° pitch back, 3° pitch forward and 3° side to side
- In-motion Weight Acquisition
    - Average weight acquisition time of 7 seconds while driving a straight path
    - In-motion weight is captured and held until the weight on the scale has been returned to the zero range
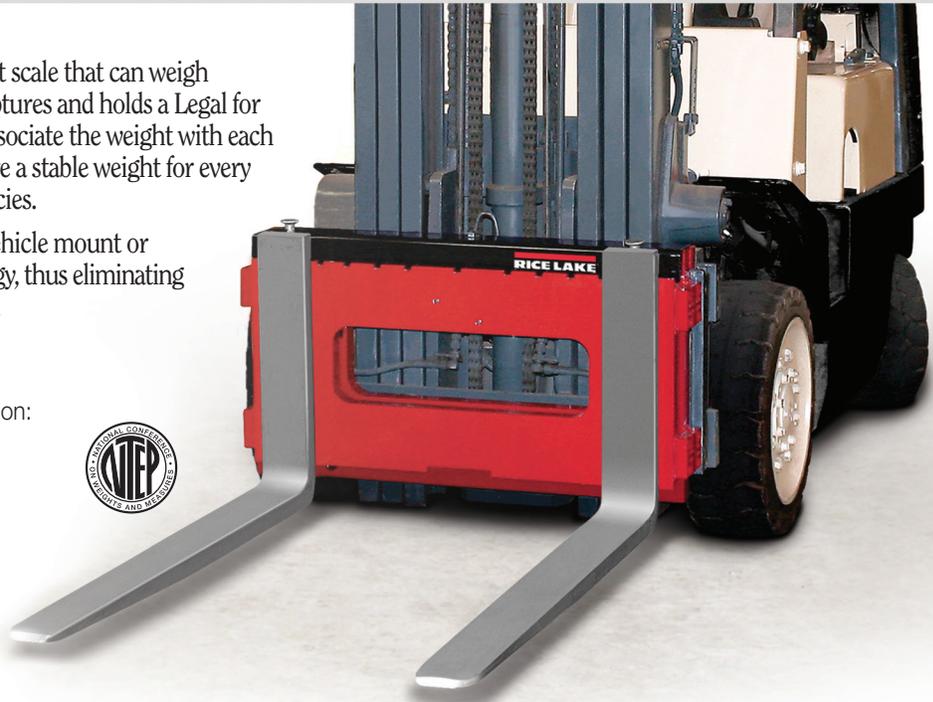
iQUBE² Digital Junction Box

The iQUBE2 digital junction box eliminates the need for a weight indicator, combining all the scale electronics and software traditionally used by indicators and analog summing boxes into one device.

- Command/Response single stream weight data format includes:
    - Live weight and final weight field
    - Weighment status flag defining a live or final captured weight value to be displayed
    - Scale serial #
    - Pitch and roll values
    - Scale status condition such as overload and underload
   - Scale diagnostics status messages

iQUBE² Digital Junction Box

Virtui³ Software

The CLS-IM Virtui3 software provides the visual Legal for Trade indicator requirements when installed on your forklift truck mount computer, tablet or handheld device.

- Available for Windows® and Android® operating systems
- Virtual indicator: Live weight and final "captured-in-motion" weight field streamed
- Zero key and in-motion clear key
- Pitch and roll displayed
- Visual step-by-step calibration menu for ease of installation
- Testing and diagnostics menu for field testing
- Emulates command/response format of CLS In-motion protocol from iQUBE2 junction box
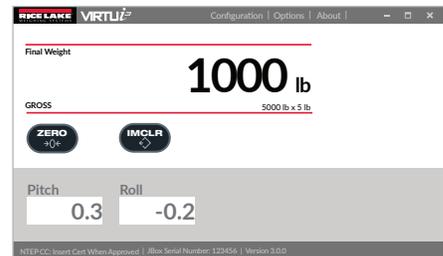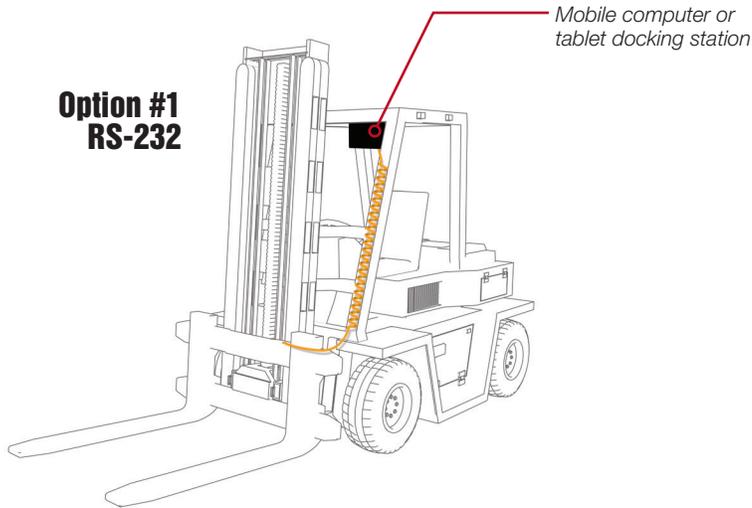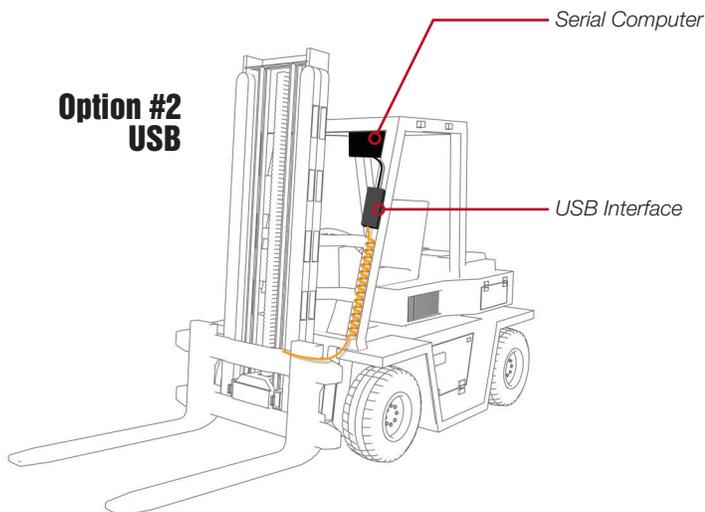

Virtui weight display

Option #1
RS-232

Mobile computer or tablet docking station

Option #2
USB

Serial Computer

USB Interface

Option #3
Bluetooth

Mobile computer or tablet docking station

USB Interface

CLS-IM Series Communication and Power Methods

The CLS-IM Series family utilizes efficient methods to provide power from the forklift to your vehicle mounted PC/tablet docking station or handheld device.

Option #1 - RS-232 Interface

- RS-232 Interface with 6 foot cable
- Available in ABF plastic housing

  Power and RS-232 communication is provided by the mobile computer or tablet docking station through a molded 9-pin RS-232/coiled cable adapter. Power to the scale is provided on 9 pin with 5VDC at 500 mA draw.

Option #2 - Serial

- Small footprint allows for variable mounting locations
- 9-36 VDC input draws only 400 mA
- Internal USB connector for field testing and calibration using Virtui3
- On/Off Switch to conserve forklift battery life
- Visible LEDs confirm proper operation of components

Option #3 - Bluetooth Interface

- Class I Bluetooth interface with a range of up-to 50 yards for transmission of data
- Built-in super caps to provide power to keep Bluetooth connection alive for up to 10 seconds
- Power off sleep mode after 30 minutes of no connection, if enabled
- Available in painted mild steel or ABF plastic housing

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