

VISION

WEIGHT INDICATOR

MODEL 195 IP69-RATED WASHDOWN WEIGHT INDICATOR



Analog and Digital Scale Models • Capacitive Touch Keys • Checkweigher Light Bars





Model 195 High-Pressure, High-Temperature Washdown Indicator

Radiant Color-Changing Checkweighing Light Bars

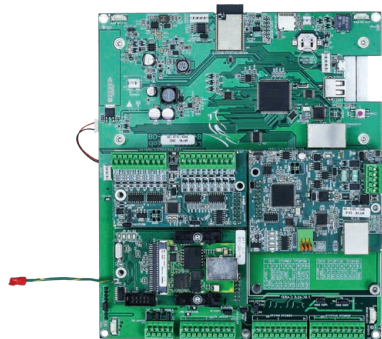
- 640 x 320 pixel resolution (5.5 in W x 2.75 in H / 6.2 in diagonal) graphics LCD with LED backlight, visible in full sunlight
- LCD default is white characters/black background and may be converted to black characters/white background
- Analog and digital versions available
- ID storage with additional temporary IDs
- 8 preset weight comparators
- Axle weigher mode using a full-length or axle scale with auto or manual weighments
- Package weigher provides up to 3 ID prompts for tracking packages, materials, and other items
- Digital Fill Control (Single ingredient, 1 or 2 Speed with Static or Dynamic Trim)
- Batcher (Up to 8 ingredients/bins, 1 Speed, or up to 3 ingredients/bins, 2 Speed with Static or Dynamic Trim)
- Count feature with accumulator
- Capacitive alphanumeric 10-key, standard function keys, 4 programmable soft keys, and QTouch navigation pad
- Time and Date with selectable 12 or 24-hour operation
- StableSENSE® adjustable digital filtering
- Multi-point calibration and high-resolution mode
- Selectable key disable
- Gross, Tare, and Net conversion
- Multi-interval (dual range) feature for single or multiple scales
- Push button and keypad tare function
- Remote input of Gross, Net, Tare, Print, Zero, Start / Stop, and Dump Commands



Watertight IP69 Enclosure with Capacitive Touch Keys

Protected against high pressure water jet cleaning (1450PSI) at high temperatures of up to 176°F / 80°C.

Loaded with Connectivity



- USB interface: USB A host port, USB B micro device port, and micro-SD storage
- Wi-Fi, Bluetooth v4.2 BR/EDR/BLE, and Ethernet TCP/IP capabilities
- Built-in 10/100 base-T Ethernet interface
- Enhanced serial connectivity with RS232 and RS485
- Up to 8 digital inputs and outputs (option card addition allows easy expansion)
- Single card slot and 2 option card slots
- Shared main board with 225 indicator (part no. 8400-0170-0A)

Checkweigher Light Bars



- Built-in, Brilliant Checkweighing Color Bars: Over, Under, and Accept Lights
- 8 Preset Weight Comparators
- Colors Available: Red, Green, Yellow, Blue, Pink, or None



TILT CONTROL KNOBS

The 195 indicator has adjustable control knobs on the sides of the stainless steel mounting bracket to tilt the display where it's easiest to view.



QTUCH NAVIGATION PAD

The 195 indicator's intuitive QTouch circular touch pad provides easy navigation through menu prompts in your application.



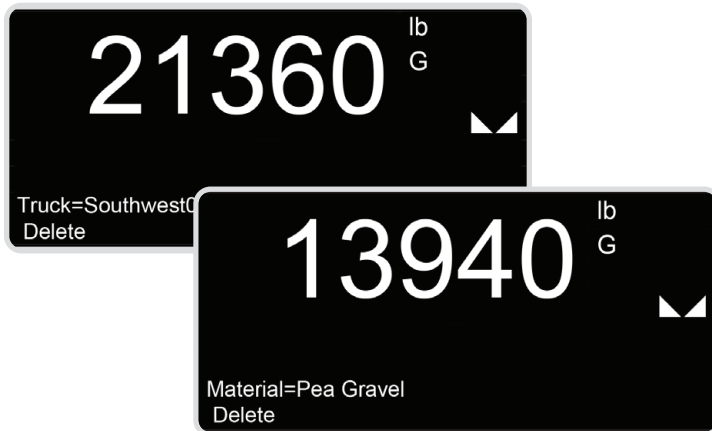
4 SOFT KEYS

Multiple user-defined and preset functions are available simultaneously through 4 convenient soft keys on the 195 indicator

Loaded with Standard Apps and Also Custom Programmable

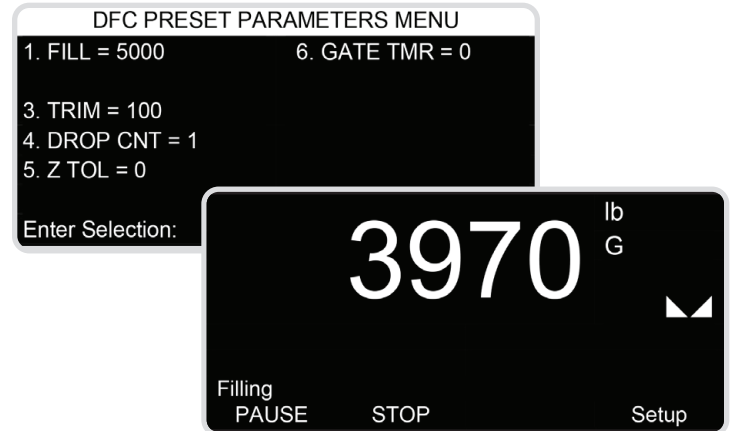


640 x 320 6.2" TFT Monochrome Display, Visible in Full Sunlight



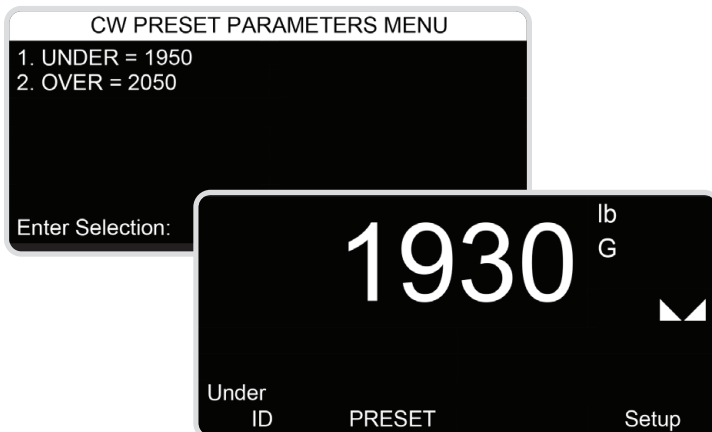
ID STORAGE

The 195 features one or two-pass operation and provides up to 3 ID prompts for each weight to track trucks and trailers, materials, and other items. You can add, edit, and delete these on the fly with the 195's alphanumeric keypad. The ID storage menu allows you to set up weight alarm outputs, alarm thresholds, ID counts, and ID prompts for each weightment.



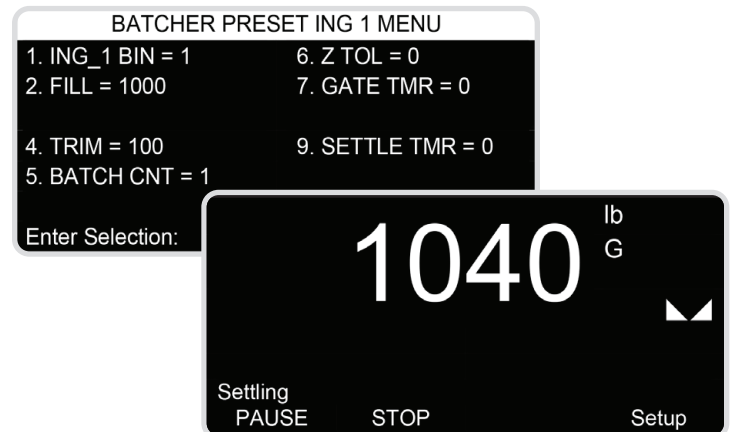
DIGITAL FILL CONTROL

Single-ingredient filling made easy with single or two-speed operation, static or dynamic trim, auto or manual dump, auto print, decumulative, and multi-drop options. Utilizing relays in an external enclosure, the 195 can provide complete control over fill gate, dump gate, and chatter gate sequencing.



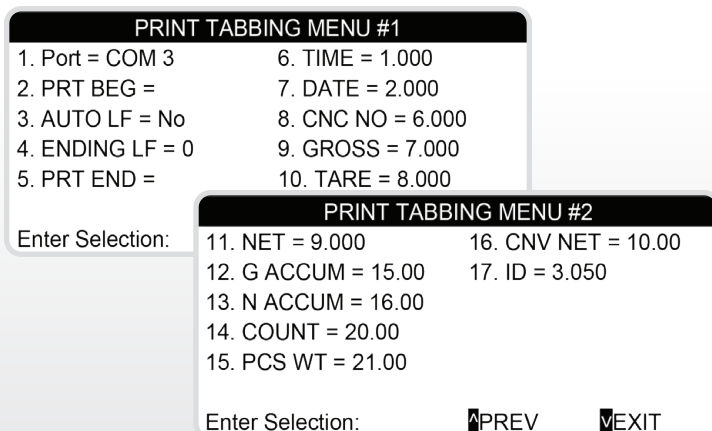
CHECKWEIGHING ZONES

The 195 features your choice of 3 or 5 zone weight comparators for the ultimate control over your checkweighing process made all the more brilliant with the built-in checkweigher light bars (Under, Accept, Over... or Under, Low OK, Accept, High OK, and Over). Optional connected relays allow you to extend control over your checkweighing operation.



BATCHING FLEXIBILITY

Batch up to 8 ingredients/bins (single speed) or up to 3 ingredients/bins (dual speed) with static or dynamic trim (up to 24 available with two optional DIO cards). The 195 provides accurate control over speed, gate sequencing, auto trim, bin count, auto print, and auto or manual dump. Set-up prompts guide operators through functions.



PRINT TAB SET-UP

The 195 comes with RS232, USB, and other printer connectivity for ticket printing. You can set up tickets directly within the 195 using X-Y coordinate locations for items such as Time, Date, Gross, Tare, Net, Gross and Net Accumulators, Count, Piece Weight, and ID.







195 IP69 Washdown Weight Indicator

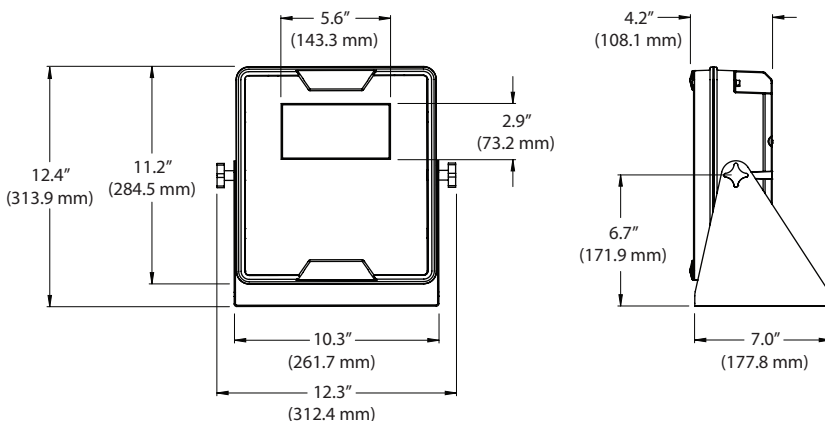


Power Requirements	100 to 240 VAC (50/60 Hz) at 1.0A
Enclosure Type	IP69-rated ABS/polycarbonate with stainless steel mounting bracket
Enclosure Size	10.5 in W x 11.5 in H x 4.25 in D / 267 mm W x 292 mm H x 108 mm D
Net Weight	8 lb / 3.6 kg (weight includes mounting bracket)
Shipping Weight	10 lb / 4.5 kg
Operating Environment	Temperature: 14 to 104°F (-10 to +40°C) Humidity: 90% non-condensing (maximum)
Display	640 x 320 pixel resolution (5.5 in W x 2.75 in H) Graphics TFT LCD w/ LED backlight
Transducer Excitation	11.5 VDC
Signal Input Range	1.0 mV min. to 40 mV max. (with dead load boost)
Analog Scale Inputs	195A: 1 ea. Analog Standard
Number of Load Cells	Analog: 14 each, 350-ohm load cells Digital: Up to 20 Cardinal Digital Load Cells with POWER-DLC
Analog Load Cell Cable Length	1,500 feet maximum (requires the use of sense lines). (Consult the factory for other requirements) 30 feet maximum without sense lines
Division Value	Commercial: 1, 2, or 5 x 10, 1, 0.1, 0.01, 0.001 and 0.0001 Non-commercial: 0 to 99
Sensitivity	
NON-COMMERCIAL:	0.15 uV/e
NTEP:	0.3 uV/e (Class III/IIIL)
CANADA:	0.3 uV/e (Class III/IIILD)
OIML:	0.7 uV/e (Class III)
Scale Divisions	
NON-COMMERCIAL:	100 to 240,000
NTEP:	100 to 10,000 (Class III/IIIL)
CANADA:	100 to 10,000 (Class III/IIILD)
OIML:	100 to 10,000 (Class III)
Internal Resolution	1 part in 16,777,216
Tare Capacity	Six Digits (999,999)
Sample Rate	1 to 100 samples per second, selectable
Auto Zero Range	0.5 to 1 through 9 divisions
Weighing Units	Tons, Pounds, Ounces, Tonnes (Metric Tons), Kilograms, and Grams
Keypad	Capacitive alphanumeric keypad with QTouch navigation keys
Standard I/O	(1) Bi-directional RS-232 or bidirectional RS485 (1) Bi-directional RS-232 or bidirectional 20mA port (1) 10/100 Base-T Ethernet (1) USB A host port (1) USB B micro device port (8) Remote isolated inputs (8) Remote isolated outputs (2) Color bars 802.11b/g/n Wi-Fi Bluetooth v4.2 BR/EDR/BLE



Model	Description	Scale Type
195A	195 indicator high-pressure washdown indicator	Analog
195D	195 indicator high-pressure washdown indicator	Digital

Model	Description
 195-225-SIB	High-speed scale input card
 195-225-3SIB	High-speed 3 scale input card
 195-225-DIO	Digital input / output card
 195-225-DLC	Digital load cell interface card



102 E. Daugherty • Webb City, MO 64870
cardinal@cardet.com • (800) 441-4237
www.CardinalScale.com