



# STORM

## 205/210 weight indicators

Cardinal Scale  
Model 205  
Weight Indicator

### VERSATILE

- Flexible Print Formats
- Digital Fill Control (210)
- 25 ID's (210)

### POWERFUL

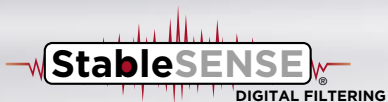
- Four Serial Ports
- USB-B Standard
- USB-A Optional

### RUGGED

- Stainless Steel Washdown Enclosure
- USA-Made Quality



Cardinal Scale  
Model 210 Weight Indicator



**CHECKWEIGHING**  
8 Preset Weight Comparators

**BOLD DISPLAY**  
Six-digit, 0.6-in (15-mm) high LED



**FUNCTION KEY**  
Enables custom applications

**ALPHANUMERIC KEYPAD**  
Enter up to 25 IDs just like you would on a cell phone



**Loaded with Time-Tested Features**

Cardinal's USA-made model 205 and 210 STORM indicators are ideal for a wide variety of weighing applications ranging from bench and floor scales to the most sophisticated vehicle scale. The four serial ports and wireless capability with SnapStream ease interfacing with remote displays, printers and PC's.

**Livestock Weighing**

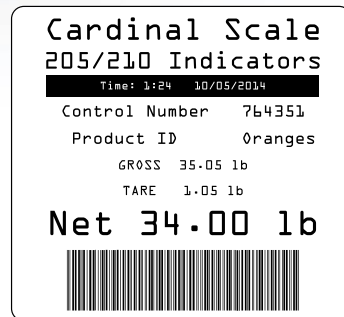
Whether you're weighing a single animal or an entire herd, the 210 indicator makes it simple. Cardinal's StableSENSE® digital filter minimizes the effects of moving livestock while the 210 can provide time, date, ID, consecutive number, gross weight, head count and average head weight for recording.

**Complete Ticket Configurability**

Convenient print tab settings with X-Y coordinates make it easy to set up a ticket with the information you need to print for any ASCII printer. With Cardinal's powerful nControl software you can create additional custom print formats for truck tickets, weight receipts, and even bar-coded labels to your specifications.

**Digital Fill Control**

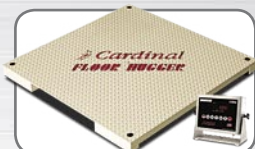
Cardinal's model 210 STORM indicator supports single and dual-speed digital fill control operation and allows a variety of discharge gate configurations. The 210 includes up to 25 stored preset / accumulators and remote inputs for Zero, Tare, Gross, Units, Start, Stop and Print.



The 205 and 210 STORM indicators may be used with...



Bench Scales



Floor Scales



Overhead Track Scales



Portable Scales

### 205 and 210 Standard Features:

- Push-button Tare
- Gross, Tare, Net display
- Selectable key lockout
- Hi-Resolution mode
- StableSENSE® adjustable filtering
- Gross and Net accumulators
- Four serial ports
- USB interface
- Programmable print format using Visual Print or nControl (2 Visual Tickets available)
- SMA level 2 compliant serial communications (For more information see <http://www.scalemanufacturers.org>)
- Field re-programmable via PC connection
- Test feature (performs display and internal tests)
- Auto Shutoff and Sleep modes

### 210 Exclusive Features:

- Alphanumeric keypad
- Keypad Tare
- Count feature with accumulator
- Time and Date with selectable 12 or 24 hour format
- Checkweigher
- Eight (8) preset weight comparators
- Axle weigher (CWL-40) operation mode
- Animal weigher
- ID storage
- 2-Speed fill control
- Eight (8) remote inputs for Zero, Tare, Gross, Units, Start, Stop and Print (1,000 feet maximum)

### Optional Features:

- Analog output
- PLC interface (Remote I/O, EIP, Modbus TCP)
- 10/100 mbps Ethernet TCP/IP adapter
- Additional serial port
- Internal relay box
- External relay box
- Column mounting
- Checkweigher light bar



### Versatile Connectivity

The 205 and 210 feature four bi-directional serial ports, USB-B standard, USB-A optional, plus the 210 offers 8-channel inputs/outputs.

**USB-B Standard**



**USB-A Optional**



### Wireless Options



When equipped with Cardinal Scale's proprietary SnapStream Wireless Interface, the 205 and 210 indicators can send weight data wirelessly to a host of peripheral equipment including printers, remote displays, PCs and networks. SnapStream is a fully integrated NTEP legal-for-trade wireless scale system for use in both commercial and non-commercial applications.

### Custom Applications

Need a special application? Cardinal's in-house software team is ready to write special software for both the 205 and 210 to meet your unique requirements. Note that the memory capacity of the 210 has been doubled from the previous version to support your most complex application. Please give us a call or e-mail to discuss custom applications!



The 205 and 210 STORM indicators may be used with...



Railroad Scales



Tank/Hopper Scales



Livestock Scales



Truck Scales



# SPECIFICATIONS

<b>Power Requirements:</b>	100 to 240 VAC (50/60 Hz) at 0.4A Max.
<b>Enclosure Type:</b>	Stainless steel wall or desk-mount
<b>Enclosure Size:</b>	9.2-in W x 7.5-in H x 3.1-in D (233-mm W x 191-mm H x 79-mm D)
<b>Weight:</b>	8.2 lb (3.7 kg)
<b>Operating Environment:</b>	Compensated Temperature Range: 14 to 104 °F (-10 to 40 °C) Operating Temperature Range: -10 to 122 °F (-23 to 50 °C) Humidity: 90% non-condensing (maximum)
<b>Display:</b>	Six-digit, seven-segment, 0.6-in (15-mm) high LED
<b>Transducer Excitation:</b>	9.4 VDC
<b>Signal Input Range:</b>	1.0 mV min. to 40 mV max. (with dead load boost)
<b>Number of Load Cells:</b>	8 each 350-ohm load cells
<b>Load Cell Cable Length:</b>	1,500 feet (457 m) maximum (requires the use of sense lines). Consult factory for other requirements. 30 feet (9 m) maximum without sense lines.
<b>Division Value:</b>	Commercial: 1, 2, or 5 x 10, 1, 0.1, 0.01, 0.001 Non-commercial: 1 to 99 x 10, 1, 0.1, 0.01, 0.001
<b>Sensitivity:</b> <b>NON-COMMERCIAL</b> <b>NTEP</b> <b>CANADA</b> <b>OIML</b>	0.15 uV/e 0.3uV/e (Class III/IIIL) 0.3uV/e (Class III/IIILD) 0.5 uV/e (Class III)
<b>Scale Divisions:</b> <b>NON-COMMERCIAL</b> <b>NTEP</b> <b>CANADA</b> <b>OIML</b>	100 to 240,000 500 to 10,000 (Class III/IIIL) 500 to 10,000 (Class III/IIILD) 500 to 10,000 (Class III)
<b>Internal Resolution:</b>	1 part in 16,777,216
<b>Tare Capacity:</b>	Scale capacity
<b>Sample Rate:</b>	1 to 100 samples per second, selectable
<b>Auto Zero Range:</b>	0.5 or 1 through 9 divisions
<b>Weighing Units:</b>	Tons, Pounds, Pounds-Ounces, Ounces, Metric Tons, Kilograms, Grams
<b>Keypad:</b>	<b>205:</b> Color-coded membrane type, 7 keys <b>210:</b> Color-coded membrane type, 22 keys
<b>Standard I/O:</b>	<b>205 and 210:</b> 4 ea serial I/O ports configured as: 1 ea 20mA output-only ports (uses one of the four RS-232 ports) 1 ea bi-directional 20mA port (uses one of the four RS-232 ports) 1 ea USB port (uses one of the four RS-232 ports) <b>210:</b> 8 ea remote isolated inputs <b>210:</b> 8 ea remote isolated outputs

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