

HRCS

High Resolution Counting Scale Specifications

HRCS: High Resolution Counting Scale

Features and Specifications

- **Counting Application:** Easy-to-use sampling routines including a one key press bulk process and a two key press dribble sampling routine where the sample key is pressed once all sample parts are on the scale (dribble is the default mode). Positive and negative sampling are both possible
- **Check Counting:** Ideal when batching product by count items rather than weight
- **Count Accumulation:** Designed to quickly totalize all counted items that have been processed or counted on the scale
- **40 PLU Data Storage:** Stores and recalls piece weight and tare weights within the scale
- **Second Remote Base:** Auto or key activated remote base switching

Advanced Settings

- **Required Sampling Routine:** Bulk or dribble sampling (default setting is dribble)
- **Minimum Sample Size:** Limits the sample size that can be entered in the scale
- **Required Accuracy:** Allows the supervisor to set the required scale accuracy subject to the environment and components being weighed (99.5% to off)
- **Minimum Sample Weight:** Limits the operator on the minimum sample weight they can use to get an accurate piece weight (turning this function off reduces the probability of achieving the required accuracy)
- **Data Base Edit:** Allows the supervisor to store up to 40 known piece weights and tare weights along with upper and lower limits if check counting is activated
- **Auto Component Latching:** Ideal when weighing extremely light components to help stabilize the weight reading after counting
- **Auto Base Switching:** Allows the supervisor to select which base to use for sampling when a second base is installed

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Physical Attributes

- **Operating Temperature:** 41°F to 104°F (+5°C to 40°C) for approvals at 10 to 90% humidity. Industrial range is -4°F to 140°F (-20°C to 60°C) at 10 to 90% humidity
- **Foot Adjustment:** Water resistant anti-slip rubber foot with a finger grip locking ring, allowing up to 0.75" (19 mm) height adjustment
- **IP Rating:** Designed to meet IP42
- **Carry Handles:** Carry handles allow this scale base to be easily carried around
- **Construction:** High resolution Quartzell mounted inside a robust aluminum die-cast clamshell base with 1100% overload and shock load protection. The indicator is protected inside a tough ABS indicator housing that is most commonly mounted to the front of the base. It can also be removed easily for wall or deck mounting. Maximum workable distance for the indicator to work away from the base is 50 ft



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Options

- Ball top for 12" x 14" (305 x 350mm) base
- Draft shield (up to 10 lb / 5 kg only)
- Clamp down plate
- Printers
- Scanners
- Remote analog card
- Wireless card
- Stack light
- Indicator wall or desk brackets
- Underhook, 9" x 12" base only

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User Interface

- **Operational Keys:** Six metal domed keys with audible feedback: Sample F1, Tare, Select, Zero, Print, Units (lb, kg, g, oz and custom)
- **Optional Remote Keypad:** 15 key remote keypad that can easily be attached to any HRCS, giving expanded functionality. Required when using a second remote base, when using the internal stored PLU database or when entering known piece or tare weights
- **Key Functions:** 0 to 9 numeric keys, cancel, decimal point, scale switching, PLU and piece weight key
- **Base Size and Capacity:**
 - 1 lb to 2 lb (500 g to 1 kg), max 9" x 12" with 6" dia. weight platter
 - 2 lb to 10 lb (1 kg to 5 kg), max 9" x 12" with 6" dia. weight platter
 - 10 lb to 70 lb (5 kg to 35 kg), max 9" x 12"
 - 10 lb to 70 lb (5 kg to 35 kg), max 12" x 14"
 - 70 lb to 175 lb (35 kg to 80 kg), max 12" x 14"
- **Digital Filtering:** Three digital filters stored within the indicator with adjustable average, constant and threshold filter settings
- **Display Rate:** 100Hz
- **Non Legal for Trade Resolution:** 100,000 divisions center of pan at stable room temperature. Up to three range multi interval or multi range configurations can be set up for non legal for trade applications
- **Internal Resolution:** 1 billion counts (1,000,000,000 internal counts)
- **Load Cell Technology:** High accuracy digital Quartzell transducer
- **Overload Protection:** 1100% overload protection
- **Corner Loading:** Spring breakaway system activates at 120% full capacity or 60% corner only load
- **Recommended Minimum Piece Weight by Base Type (sample size of 50):**
 - 2 lb (1kg) min piece weight 0.000004 lb (2 mg), min sample weight 0.00022 lb (0.1 g)
 - 10 lb (5kg) min piece weight 0.000022 lb (10 mg), min sample weight 0.0011 lb (0.5 g)
 - 70 lb (35kg) min piece weight 0.000154 lb (70 mg), min sample weight 0.0077 lb (3.5 g)
 - 175 lb (80kg) min piece weight 0.000352 lb (160 mg), min sample weight 0.0176 lb (8 g)
- **Count Accuracy:** Fully configurable up to 99.5% subject to environment and component size being sampled
- **Filter Setting:** Controlled within the indicator
- **Creep:** 0.001% of 100,000 divisions over a 30 minute period or 0.0005% of 200,000 divisions over a five minute timespan
- **Minimum Recommended Non Verifiable Division Size:**
 - 0.000001 lb (0.0005 g) for the 2 lb (1 kg) base
 - 0.000005 lb (0.002 g) for the 10 lb (5 kg) base
 - 0.00002 lb (0.01 g) for the 70 lb (35 kg) base
 - 0.00005 lb (0.02 g) for the 175 lb (80 kg) base

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Display Operating Applications

- **Compatibility:** Supplied connected to one base as standard. Maximum number of bases allowed is two (one local base and a second or analog platform). Can link to a second base using one RS232 port. Can also link to an analog remote base (with up to six 360 ohm load cells) by installing an optional 5 VDC excitation analog base card and remote keypad
- **Indicator Display:** Green on black IBN display, ideal for low lit areas. Easy to read seven digit 1/2" high seven segment display with a green under, over and accept segment bar
- **Metrology Data:** Stored within the indicator
- **Indicator to Base Communications:** Local base connection uses one dedicated RS232 connection with a keyed RJ45 connector on the rear of the indicator. A second base is wired in through the RS232 comm port. A second analog base is wired into a dedicated second analog base connector, which requires an optional 5V ex card along with a remote keypad
- **HRCS Ports:**
 - Comes standard with (2) serial ports, (1) Ethernet, (3) inputs and (3) outputs
 - (2) RS232 serial ports (green connector)
 - (1) mini USB VCP port, connected in parallel with COM2 or consumes COM2 if used
 - 9V DC power socket
- **Power Options:** 100V to 240V AC, 50/60 Hz switch mode power supply mounted to the rear of the base. The base can be powered using either a power jack on the rear of the base or on the rear of the indicator
- **Battery Power Option:** Factory fit NIMH rechargeable battery option gives up to 16 hours of continuous usage. The remote battery option gives up to 25 hours of continuous usage

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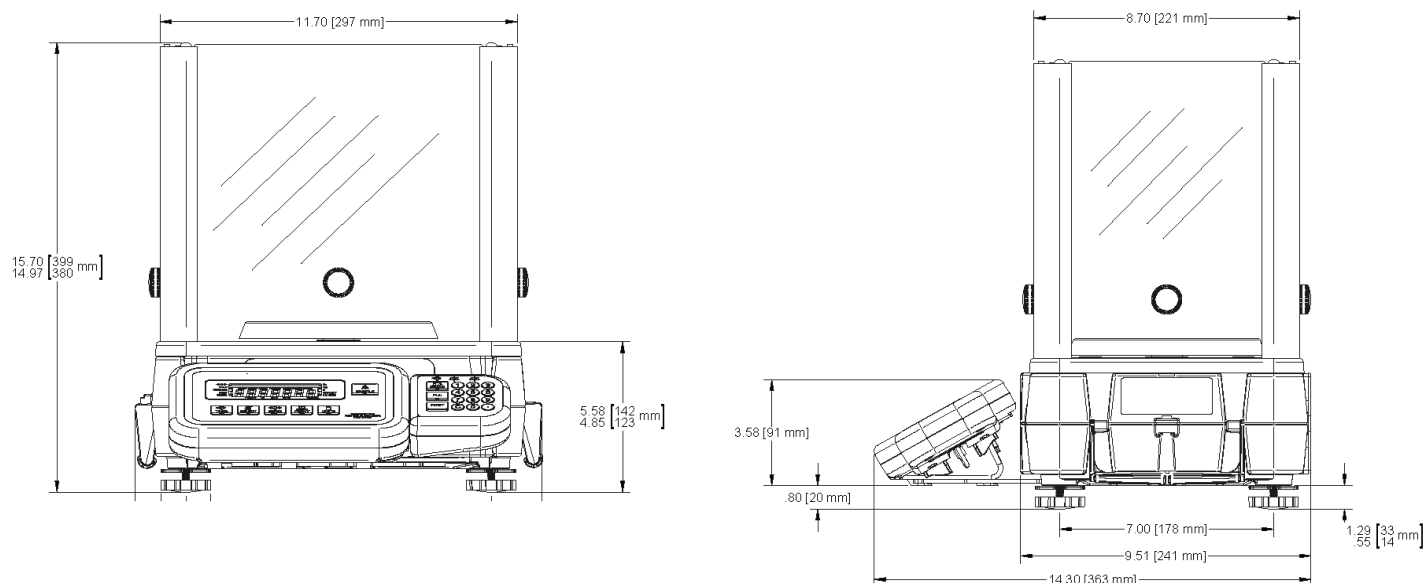
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Main Capacities Resolutions Available

Weigh Platter Size	Non Legal for Trade 100,000d	Non Legal for Trade 100,000d
6" dia (156mm)	1 lb x 0.00001 lb	500 g x 0.005 g
6" dia (156mm)	2 lb x 0.00002 lb	1000 g x 0.01 g
6" dia (156mm)	5 lb x 0.00005 lb	2000 g x 0.02 g
6" dia (156mm)	10 lb x 0.0001 lb	5000 g x 0.05 g
9" x 12" or 12" x 14" (230 x 305 or 305 x 350mm)	10 lb x 0.0001 lb	5000 g x 0.05 g
9" x 12" or 12" x 14" (230 x 305 or 305 x 350mm)	25 lb x 0.0002 lb	10 kg x 0.0001 kg
9" x 12" or 12" x 14" (230 x 305 or 305 x 350mm)	50 lb x 0.0005 lb	25 kg x 0.0002 kg
9" x 12" or 12" x 14" (230 x 305 or 305 x 350mm)	70 lb x 0.001 lb	35 kg x 0.0005 kg
12" x 14" (305 x 350mm)	100 lb x 0.001 lb	50 kg x 0.0005 kg
12" x 14" (305 x 350mm)	175 lb x 0.002 lb	80 kg x 0.001 kg

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Draft Shield Drawings, 9 in x 12 in

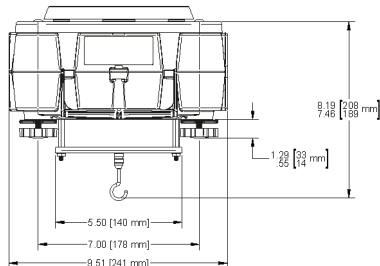
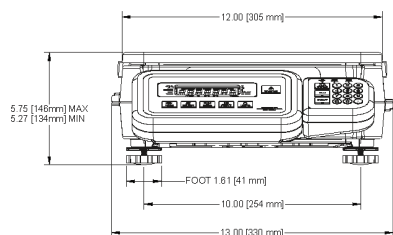
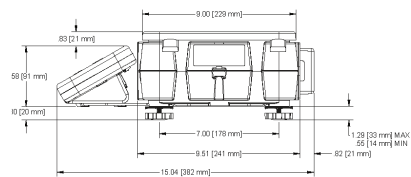
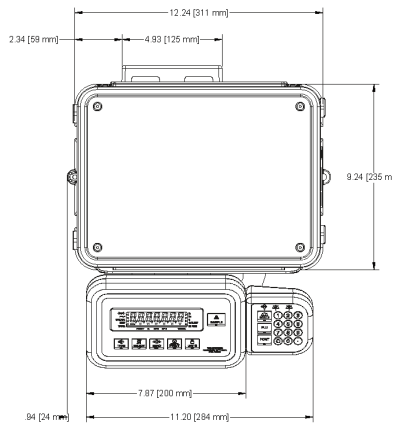


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9 in x 12 in



12 in x 14 in

