

# WEIGH-TRONIX

**Accurate.  
Simple.  
Adaptable.  
Amazing.**



*Exclusive Quartzell®  
digital technology  
defines a highly precise  
method of counting  
that's not available  
anywhere else.*

## PC-820 Counting Scale

## Better counting means a better bottom line.

The closer you can get to a perfect parts count, the closer you can get to just-in-time inventory. Which will then give you greater manufacturing efficiencies, quicker turnaround, and improved profits. Owning a Weigh-Tronix Quartzell® PC-820 counting scale makes the difference.

National Controls, Inc. (NCI), acquired by Weigh-Tronix in the 1980s, is the company that brought you the first electronic counting scale—a significant milestone in accuracy. Now

we bring you the advanced accuracy of Quartzell technology, teamed with ease-of-use and flexibility.

### Why



### digital technology is better:

- Unlike traditional load cells, it's completely digital—no analog components to slow down, corrupt or interfere with weight sensing.
- Useable internal resolution of 1 part in 2 million—provides more precise piece weights.
- Quartz crystals have proven their accuracy—from wristwatches to computers.

### Rely on the ultimate in accuracy.

Quartzell load cells are the only transducers in the industry with the high accuracy and reliability of crystal technology. Quartzell has the double benefit of being more accurate than analog, at an extremely competitive price.

### So simple, it increases productivity from the start.

Ease-of-use is critical to the success of any counting scale, so we've made the PC-820 a model of simplicity. Even with multiple shifts and personnel changes, users will quickly feel confident in all phases of its operation.



Prompts give easy-to-follow instructions.

**Easy-to-read display.** Instructions in the prominent display window lead employees through the use of every function, with easy-to-follow directions and prompts.

The backlit dot-graphic display features 63 different contrast settings. A quick keystroke makes the adjustment to high or low lighting conditions with no interruption of work.

**“Soft keys” tailor functions to your needs.** Five separate keys—we call them “soft keys”—let you personalize the scale to your individual applications. Easily changed, they direct the scale to perform as many or as few of the functions as you need for a specific task. As a result, operators push fewer keys, and are not faced with a confusing selection of functions that don't apply to their job.



Configure soft keys to only those functions needed for your specific application.

### Built-in adaptability gives you more for your money.

To be truly valuable, a counting scale needs to do more than just count. The PC-820 is flexible enough to adapt to being part of a variety of configurations.

So, rather than buying a new scale when your needs change, simply reprogram the soft keys to add additional capabilities—such as remote base operation, accumulation of counts, data base information and more.



Add soft key functions as your needs change.

## PC-820 Counting Scale

*For shipping and receiving applications, the PC-820 interfaces with a variety of peripheral equipment.*



*With its battery options, the PC-820 also powers a bar code gun or wand for complete portability in cycle-counting applications. Its extensive database lets you keep inventory information right in the scale.*

*Configure a system to fit your exact needs, with a variety of Quartzell and analog bases.*



**Put cycle-count information at your fingertips.** Store as many as 1000 records with an internal, configurable database. Each record has enough room to include part number, description, tare weight, and various numeric fields, with 32 characters available for each field. As a result, you can maintain part and count information in the scale. When you need it, it can be quickly and easily recalled, printed, and transmitted for further use.

**Interface with any serial printer.** A customized program makes any brand of printer compatible with the PC-820. Your distributor can tailor and deliver the program directly to you. If you change printers, the distributor can adjust the program for you.

**Scan bar codes.** Get fast piece weights without keying them in or going through the sample process. The PC-820 powers either a bar code gun or wand.

**Access a remote base.** For applications that demand it, the PC-820 expands to a dual or triple base system. Just add an optional Quartzell base, and/or an analog deck scale.

**Enjoy complete portability.** With both internal and external battery options, the PC-820 is ready to be moved right to the job, instead of forcing you to move the job to the scale. Store cycle-count information with a bar code scanner even when you're in the most remote corners of a warehouse, and download later to a computer.

### **Customer support that rates at the top of the scale.**

The Weigh-Tronix authorized distributor network provides local service and complete technical support throughout the world. These experienced distributors are not only scale specialists, but are dedicated to helping you keep your business running as smoothly as possible.

The PC-820 is a member of our family of advanced programmable instruments. Ask your distributor about custom programs for using the PC-820 in more complex applications.

*For more than 25 years, we've been committed to providing our customers with the highest quality and innovation in both products and service. That is our tradition. And, it is our driving force for the future.*

## PC-820 Specifications

Capacity	Standard Resolution	Expanded Resolution
10 lb	.001 lb	.00005 lb
50 lb	.005 lb	.0002 lb
100 lb	.01 lb	.0005 lb
5 Kg	.0005 Kg	.00002 Kg
25 Kg	.002 Kg	.0001 Kg
50 Kg	.005 Kg	.0002 Kg

### Power input (inline transformer):

115 VAC, 50/60 Hz

Optional 230 VAC, 50/60 Hz

### Operational keys:

Zero, Tare, Enter, Escape, Clear, 0-9, Decimal Point, Previous, Next, and 5 Soft Keys

All keys provide users with tactile and (configurable) audio acknowledgement when they are activated

### Operational annunciators:

Display symbols include Stability, Active Tare, Current Base, Center of Zero, Low Battery, Unit of Measure and Display Label

### Display:

240 x 64 dot matrix LCD display

5" x 1.33" displayable area

PC-820: Cold cathode fluorescent backlit (white on blue)

### Display rate:

Selectable, 0.1 to maximum readable updates

### Units of measure:

Pounds, kilograms, grams, ounces, pounds and ounces, and two fully custom units of measure

### Displayed resolution:

Up to 1 part in 500,000

### Time and date:

Battery protected real time clock (Y2K compliant)

### Internal resolution:

Quartzell: 1 part in 2,000,000

Analog (optional): 1,000,000 counts analog

### Harmonizer digital filtering:

Fully selectable to ignore noise and vibration

### Memory:

Capable of storing 1000 records including part number (32 char), description (32 char), count accumulator, tare, and piece weight. (Database is very flexible and number of records is dependent upon record content)

### Power saving:

Scale has 2 power-saving timers; one controls backlight and another has capability of shutting the scale off. Any keypress wakes the scale.

### Standard input and output:

**Com1:** RS-232 or RS-485; can be used for printing, bi-directional communications, or interfacing with a remote Quartzell® base

**Com2:** RS-232; bi-directional port or capability of connecting to a serial keyboard (TTL or RS-232), scanner, and printer at the same time

I/O: I<sup>2</sup>C connection capable of connecting to as many as 32 OPTO 22 I/O modules

### Available options:

- Remote scale card with connections for an analog base with Analog to digital conversion rate of 60 times per second and an external Quartzell interface
- Remote expanded control interface for 8, 16, 24, or 32 OPTO 22 I/O modules (SSCU-8)
- External battery: BP-25R 12-Volt battery with built-in charger. Up to 18 hours continuous operation
- Internal battery: Two 6-Volt batteries with internal charger. Up to 9 hours continuous operation
- 230 VAC inline transformer
- Ball top (N/A on 10-lb. scale)
- Alpha-numeric, serial keyboard
- Draft shield for 10-lb. scale (recommended for display resolution above 10,000 divisions)

### Operating temperature:

14°F to 104°F (-10°C to 40°C)

### Dimensions:

Platform 12" x 14" (50- and 100-lb models)

Platform 8.5" dia. (10-lb. model)

Overall 14" W x 17" D x 4.5" H

### Weight:

18.5-lbs. (Internal options increase weight)

### Agencies:

UL/CUL pending

CE pending

### Warranty:

2 years

## WEIGH-TRONIX

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