

## About Control Concepts, Inc.

Control Concepts, Inc. is a manufacturing company located in Northeast Connecticut in the United States. For over 50 years Control Concepts, Inc. has specialized in manufacturing shaft driven electro mechanical, electronic and proximity zero speed switches. Over the years we have grown our patented zero speed switch lines and added other product lines including electronic and proximity zero speed switches, sonic/acoustic cleaning horns and mechanical/diff counters. Our products are used in the automotive, construction, chemical, pulp/paper, petroleum, waste, asphalt, cement, mining, material handling, electrical, wire/cable, power generation, environmental, medical, transit, food/beverage, agriculture industries and more. Our products can be found in 50% of the Dow Jones Industrials and our worldwide customer base is over 3,700 different organizations. We proudly manufacture all of our products at our plant in Putnam, Connecticut.

## Company Divisions

Our *Speed Switch Division* offers UL approved zero speed switch models for use in many different industrial applications including conveyors, blowers, motors, drums, rotary feeders, bucket elevators, fans, airlocks, screening machines, crushers, dryers, burners and rotary kilns. Operating ranges are between 0.1 and 2,000 RPM. Control Concepts, Inc. zero speed switches include electro mechanical devices that need no electrical input power to operate as well as electronic devices. All of our zero speed switches require no periodic calibration or field maintenance and can act as a PLC input.

Our *AcoustiClean™ Division* manufactures sonic horns that are designed to produce and amplify low frequency sound vibrations at high volume for the removal of particle build-up. Some common applications include: baghouses, bins, silos, hoppers, SCRs, boilers and electrostatic precipitators.

Our *Counting Devices Division* specializes in the manufacture of mechanical "diff" counters. Our counters have been used by hospital, medical and scientific laboratories, as well as, cafeterias and transit operators across the world for over 70 years. With little practice these cell counters can be stroked by "touch" much like a keyboard. Used in this way the operator's eyes are not diverted from the microscope, table or counter top and counts are completed quickly and accurately.

## Client Testimonials

"At Taunton, we earned our reputation for engineering excellence. To protect that reputation, we only use controls we have utmost confidence in. We specify Control Concepts Zero Speed Switches."  
- Taunton Engineering

"Meyer incorporated the Control Concepts Switch into its design some 20 years ago. It withstood the test of time in some very severe service environments. And, given the high level of support we receive from the Control Concepts people we expect our association to continue."  
- Wm. W. Meyer & Sons, Inc.



Control Concepts, Inc. Zero Speed Switches.

## Electro Mechanical Speed Switches:

A direct coupled speed indicating switch that opens or closes contacts mechanically as a function of the rotational speed of the switch shaft. The speed the switch trips at is dependent on the construction of the switch or adjusting internal components. Some models are field adjustable.

## Design and Models:

- 2100 Series - Cast Iron / Aluminum /Explosion Proof
  - NEMA 4/4X / NEMA 7 & 9 / EP-1
  - 4 - 2000 RPM
- 4100 Series - Cast Iron / Aluminum
  - NEMA 4/4X
  - 4 - 2000 RPM
- 8100 Series - Cast Iron / Aluminum /Explosion Proof
  - NEMA 4/4X / NEMA 7 & 9 / EP-1
  - 0.1 - 25 RPM

## Electronic Speed Switches:

Two types: A direct coupled speed indicating switch that opens or closes a set of contacts through a relay and an electronic circuit, and a non-contacting speed switch which relies on a proximity sensor to pickup a rotating piece of ferrous metal. Both switches allow for a wide range of user defined parameters for switch trip settings.

## Design and Models:

- Roto-Guard III - UL & CA approved
  - NEMA 4/5 / NEMA 7 & 9 / EP-1
  - 0.1 - 7500 RPM
- Prox 120 Switch - Cast Iron with Lexan cover
  - NEMA 4/5
  - 0.1 - 7500 RPM



AcoustiClean Sonic Horns.

### AcoustiClean Sonic Horns:

High powered acoustic cleaning horns designed to prevent costly particle build-up. AcoustiClean sonic horns produce high energy, low frequency sound waves. This is accomplished by forcing compressed air through a sound generator causing a titanium diaphragm to vibrate. This vibration creates a series of sound waves. The sound waves enter the vessel resonating the particles loose from the surfaces on which they have settled.

### Design and Models:

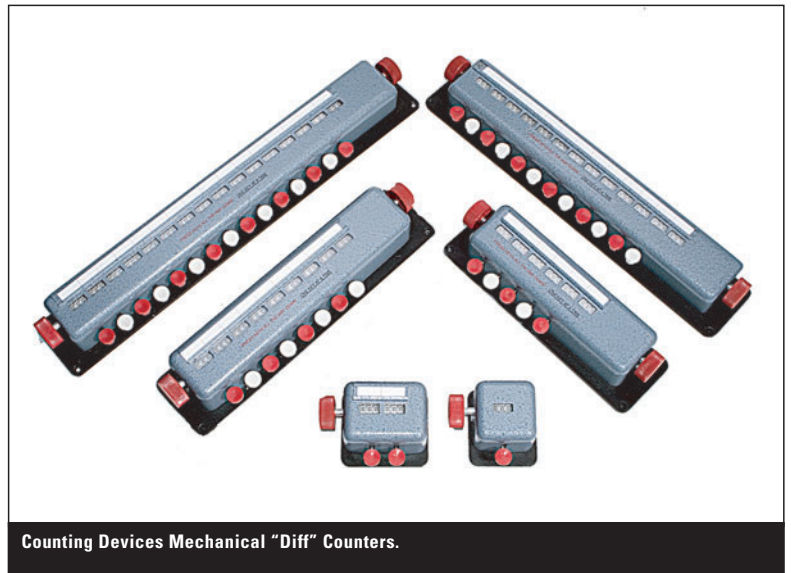
- ACL 17220 - Cleaning distance up to 15' and 6' diameter
  - 220 Hz frequency
  - 149 dB sound pressure level
- ACL 34230 - Cleaning distance up to 30' and 15' diameter
  - 230 Hz frequency
  - 149 dB sound pressure level
- ACL 53100 - Cleaning distance up to 60' and 20' diameter
  - Elbow design for confined locations
  - 100 Hz frequency
  - 148 dB sound pressure level
- ACL 9475 - Cleaning distance up to 60' and 20' diameter
  - 100 Hz frequency
  - 148 dB sound pressure level

### Counting Devices Mechanical Counters:

"Diff", hand tally and multi-counters for medical/scientific laboratory, transit ridership, industrial, production, food/beverage uses and more. Anywhere counts are critical Counting Devices mechanical counters can help.

### Design and Models:

- Laboratory Counters (CDI) - 1 to 16 counter keys
  - Totals carried to 999
  - Zero reset knob(s)
  - Bell signals every 100 strokes
- Multi-Counters (MC)
  - 5 to 12 counter keys
  - 4 digit totalizer available
  - Zero reset knob(s)
- Hand Tally (HT)
  - Heavy die cast silver cover
  - Counts to 9,999
  - Zero reset knob
  - Finger ring to hold securely
  - Block mount available



Counting Devices Mechanical "Diff" Counters.



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[www.AcoustiClean.com](http://www.AcoustiClean.com)  
[www.CountingDevices.com](http://www.CountingDevices.com)