

# MPE **III SIGMA** RELIADENS™ DENSITY MEASUREMENT SYSTEM

## Automated Bulk Density Measurement & Control

- > Continuous, on-line measurement
- > Closed-loop control of process settings
- > Reduces process variation & eliminates waste
- > Continuous sampling
- > Eliminates human error



*Typical Installation*

### Approximate Dimensions:

- a) Standard: 39" x 12" x 22.5"  
(1m) x (300 mm) x (570mm)
- b) Custom: 19" x 11" x 18.5"  
(480mm) x (280 mm) x (470mm)

MPE Reliadens  
U.S. Patent #: 5563384

### COMMON APPLICATIONS INCLUDE:

FOOD	SNACK FOODS	CATALYST
COFFEE	PET FOOD	RESIN
CANDY	CREAMER	FERTILIZER
CEREAL	DETERGENT	

### SPECIFICATIONS

**Rate:** Adjustable sample rate (up to 3 samples/min.)

**Method:** Accurate freefall density

**Controls:** Feedback via 4-20 mA signal or Ethernet

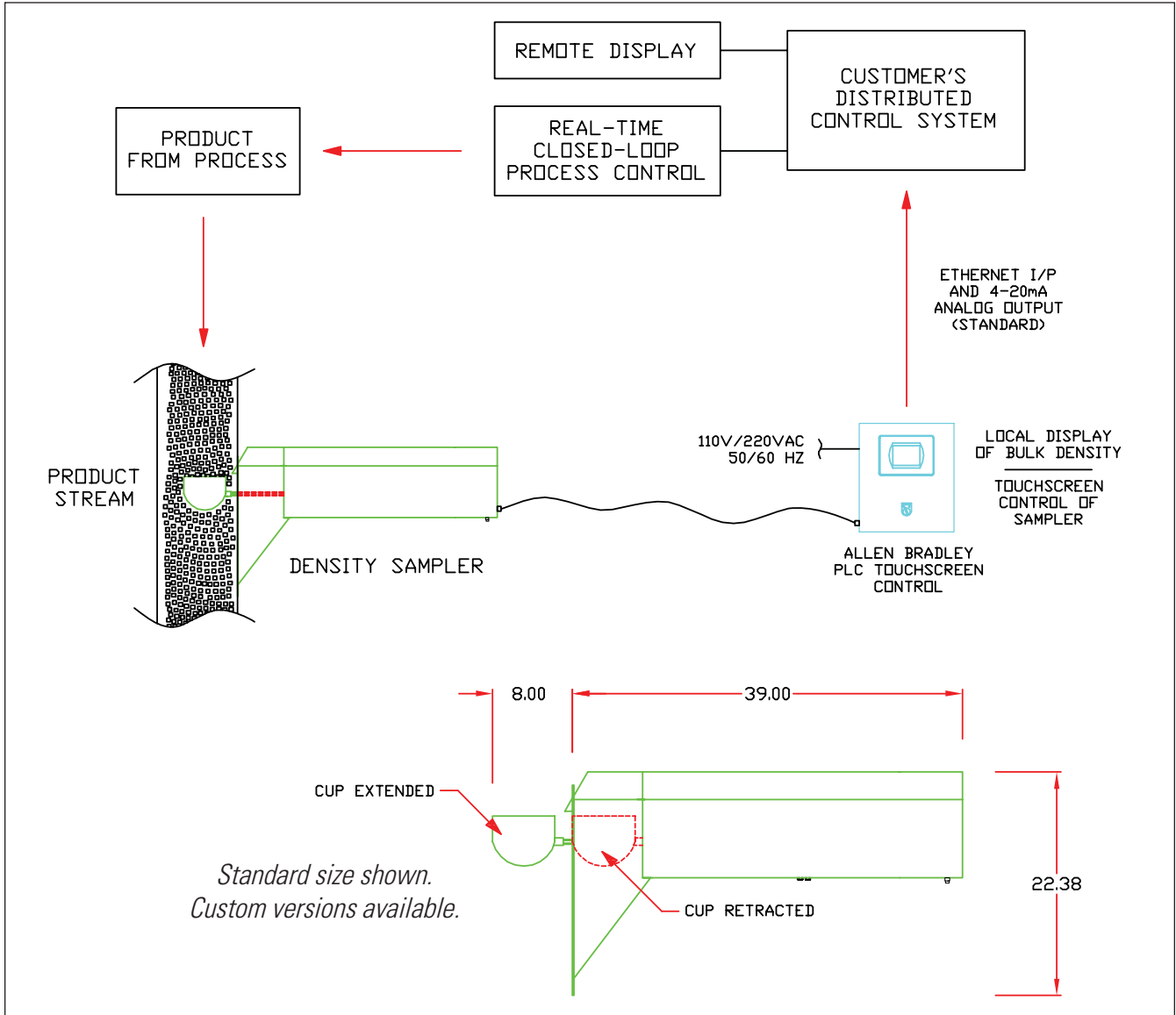
**Process Drawing:** See reverse

VIEW OUR RELIADENS VIDEO AT:  
<http://www.youtube.com/watch?v=9o-IAC4ZwhQ>



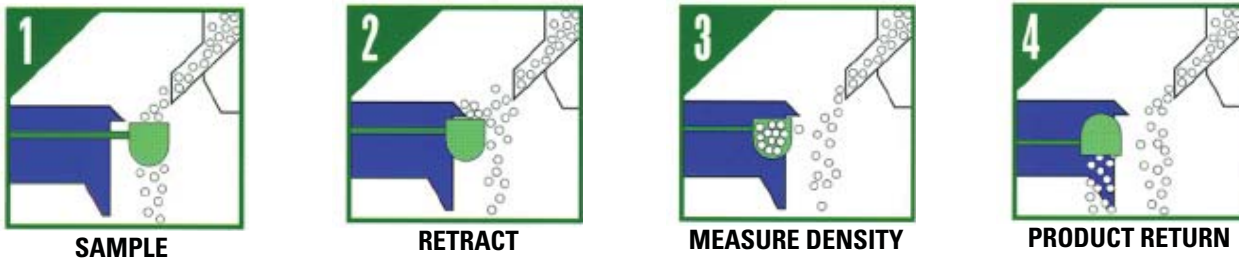
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**How Reliadens Works:**

- > Mounted in-line, Reliadens uses a 4-step cycle with system tares at the start of every sampling cycle.
- > Reliadens measures actual sample density (rather than inferring density from other measurements) and can sample as often as every 20 sec.
- > The sampling process uses no radiation and the sample is returned into the product stream with zero waste.



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