

# Drain refractometer for real time Brix

## Application Description

Monitoring the sugar load going from a factory to a wastewater plant or when the city requires Brix to be measured.

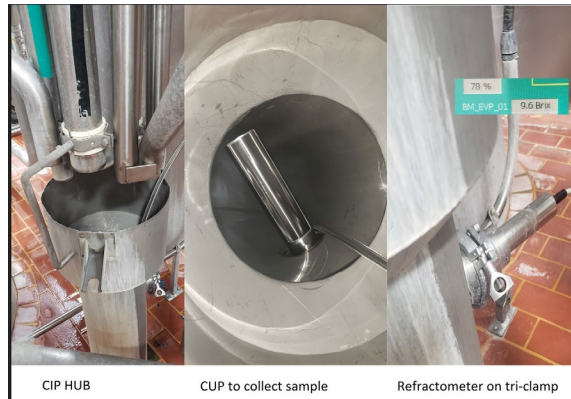
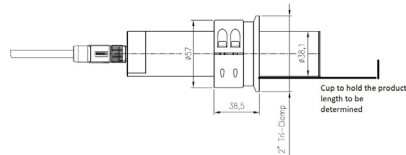
## Milktronics Solution

Milktronics has developed a way to insert a refractometer into a drain or an open effluent funnel. The meter is 100% waterproof, powered by 24VDC and sends a 4-20mA signal to the control system. If the brix % gets higher than the set-point an alarm will be activated. This is an easy way to control what is coming out of the plant.

## Installation example



PIC1: UR62



## System Features

### Range:

1.3170...1.4907 nD (0...80 Brix)

### Accuracy:

max:  $\pm 0.2$  Brix

### Resolution:

0.2 Brix or equivalent for USER scale.

### Product temperature:

-5...+90 °C (23...194 °F)

### Line pressure:

max. 10 bar (145 psi) at 20 °C (68 °F)

max. 8 bar (116 psi) at 90 °C (194 °F)

### Interfaces:

Digital:

RS485 for connection to programming PC or Remote Control Repeater RC-24.

### Power supplies:

- AC 24V  $\pm 10\%$  50...60Hz 80mA

- DC 24V  $\pm 10\%$  80mA

### Outputs:

2 relay outputs (alarm condition signaling)  
+ 1 relay output for cleaning system control with DC/AC 24V/500mA contacts.

### Dimensions and weight:

$\varnothing 38.5$  (b) x 173 (d), 500 g

### Execution:

- AISI 316 stainless steel Enbloc casing for installation on the process line by means of the special adapter.

- Degree of Protection IP67 (EN60529)

