

Drain refractometer for real time Brix

Application Description

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

Milktronics Solution

Maselli has developed a way to insert a refractometer into a drain or an open effluent tunnel. The meter is 100% waterproof, powered by 24VDC and sends a 4-20mA signal to the control system.

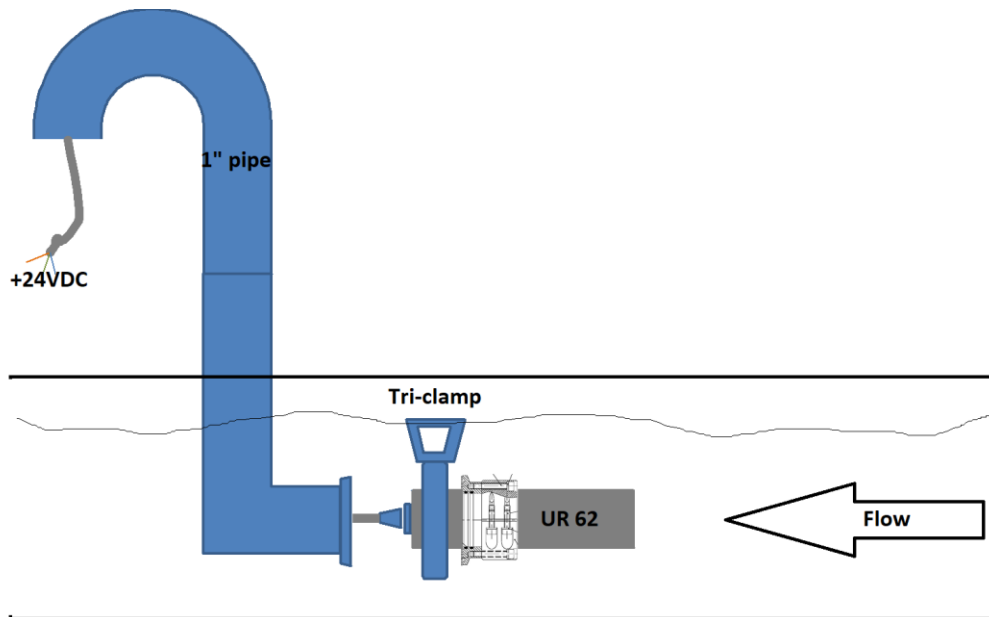
If the brix % gets higher than the set-point an alarm can be activated.

This is an easy way to control what is coming out of the plant.



PIC1: UR62

Installation example



System Features

Range:

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

Accuracy:

max: ± 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:

ø38.5 (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)