

## UR62 refractometer for real time Brix

### Application Description

Monitoring the Brix value in a process. Suitable for Pulp and paper, chemical, Fruit plants and any wastewater treatment plant.

### Milktronics Solution

Maselli has developed a way to insert a refractometer into a pipe/drain or an open effluent tunnel. PIC1: UR62 with RC24

The meter is 100% waterproof, powered by 24VDC and sends a 4-20mA signal to the control system.

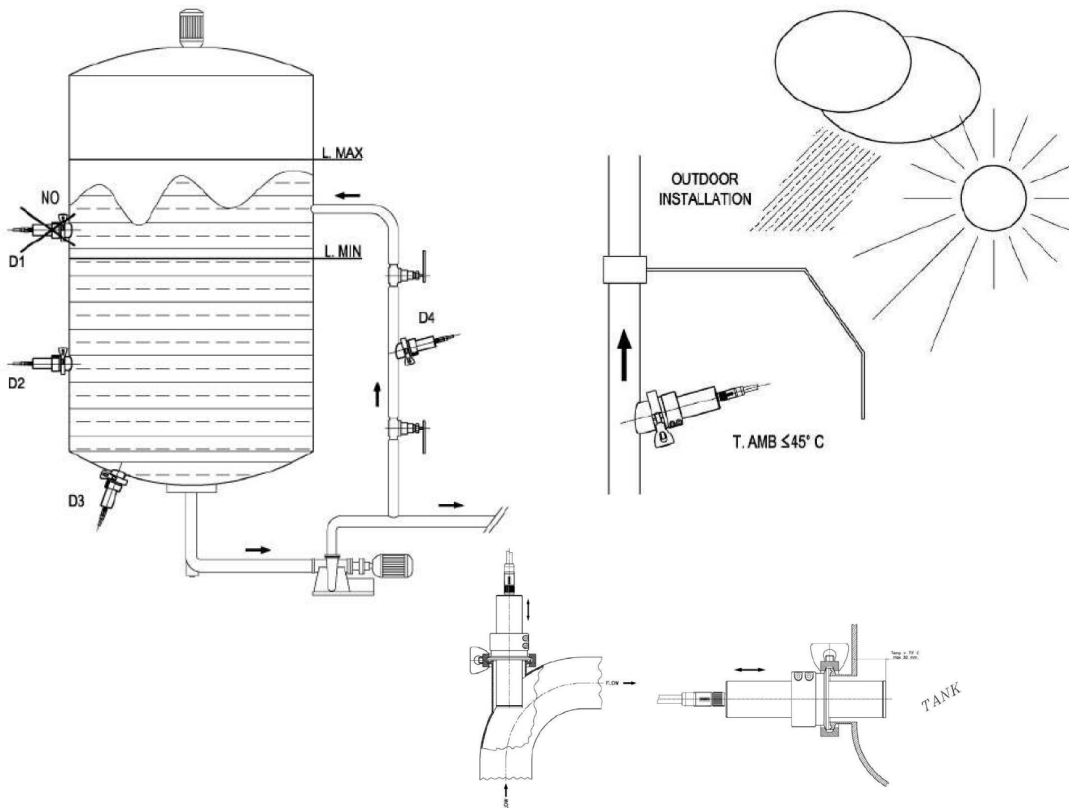
If the brix % gets higher than the set-point an alarm can be activated.

This is an easy way to monitor the Brix value at any point of the process.

The setup includes a refractometer probe, a PVC cable and a remote controller.



### Installation example



### 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)