

Real time Brix monitoring in wastewater

Application

Continuous Brix monitoring in plant drains and effluent streams helps detect product losses, sugar spills and abnormal discharges in real time. Spills, process upsets, product transitions and cleaning can send dissolved product into the wastewater system. Continuous monitoring helps operators identify abnormal discharge events.

Measurement and control

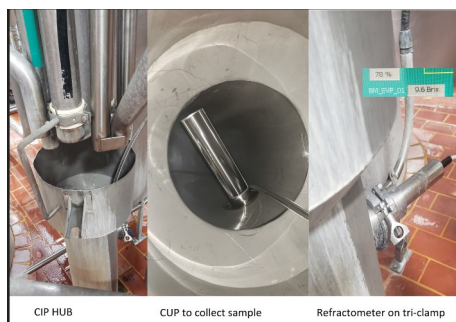
Milktronics provides a mounting method for continuous Brix measurement in a plant drain or open effluent funnel. The Maselli refractometer measures the flowing liquid and sends a 4-20 mA signal to the plant controls. A programmable high-Brix alarm identifies events that exceed the selected threshold, helping operators locate product losses.



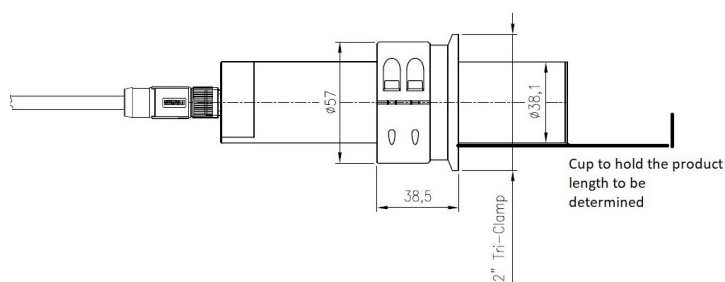
Maselli UR62 probe

Features and application details

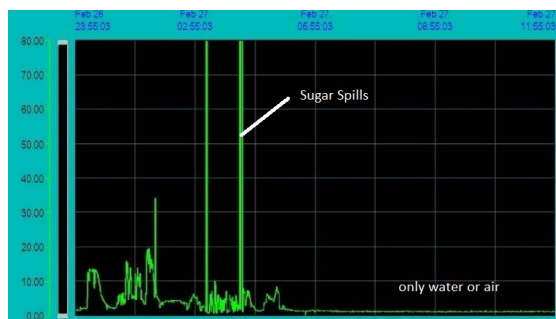
Parameter	Specification
Range	1.3170...1.4907 nD (0...80 Brix)
Accuracy	max: ± 0.2 Brix
Resolution	0.2 Brix
Product temperature	-5...+90 °C (23...194 °F)
Line pressure	max. 10 bar (145 psi) at 20 °C (68 °F) max. 8 bar (116 psi) at 90°C (194 °F)
Interfaces	RS485 for connection to programming PC or Remote Control Repeater RC-24.
Power supplies	AC 24V $\pm 10\%$ 50...60Hz 80mA DC 24V $\pm 10\%$ 80mA
Outputs	4-20 mA+ relays
Dimensions and weight	$\varnothing 38.5$ (b) x 173 (d), 500 g
Construction	AISI 316 stainless steel enclosure for installation on the process line by means of the special adapter. Degree of Protection IP67 (EN60529)
Key Benefits	Detect sugar and product losses in real time Identify spills and process upsets Set automatic high-Brix alarms Help prevent excessive wastewater loading Monitor wastewater continuously, 24/7



CIP collection funnel installation



Probe mounting dimensions



Recorded Brix trend