

# SPECTRA MARK



### +550 devices sold, installed and work in Brazil and overseas!









### **PROVENQUALITY** THE LEADING COMPANIES IN THE SUGAR-ENERGY SECTOR APPROVE!







#### **BASIC FEATURES**

National Leader

**Technical support in Brazil** 

(Free)

**Modbus Communication** 





#### Automatic cleaning system (self-cleaning)

#### Easy configuration and calibration, by Wireconfig Software

#### Communication in Profibus DP (GSD; Generic Profile)





dbus

PROF

#### **TECHNICAL CHARACTERISTICS**

mA retransmission

Integrated PT-100 for temperature compensation and 4-20

- Microware frequency: 1.9 to 2.5 GHz (exclusive)
- Superior accuracy and repeatability
- Linearization by 4th order polynomial
- IP65 protected housing and DN-65 flange
- High performance connectors with quick coupling





Sucrose

Pre Evaporator, Evaporator, Syrup, Molasses Dilution

Cookers of types A, B, C and Refined

Wort in Fermentation

Baumé in the Preparation of Milk of Lime and Sucrose

Others: Belfano Sugar, "Caromba", Liquid Sugar

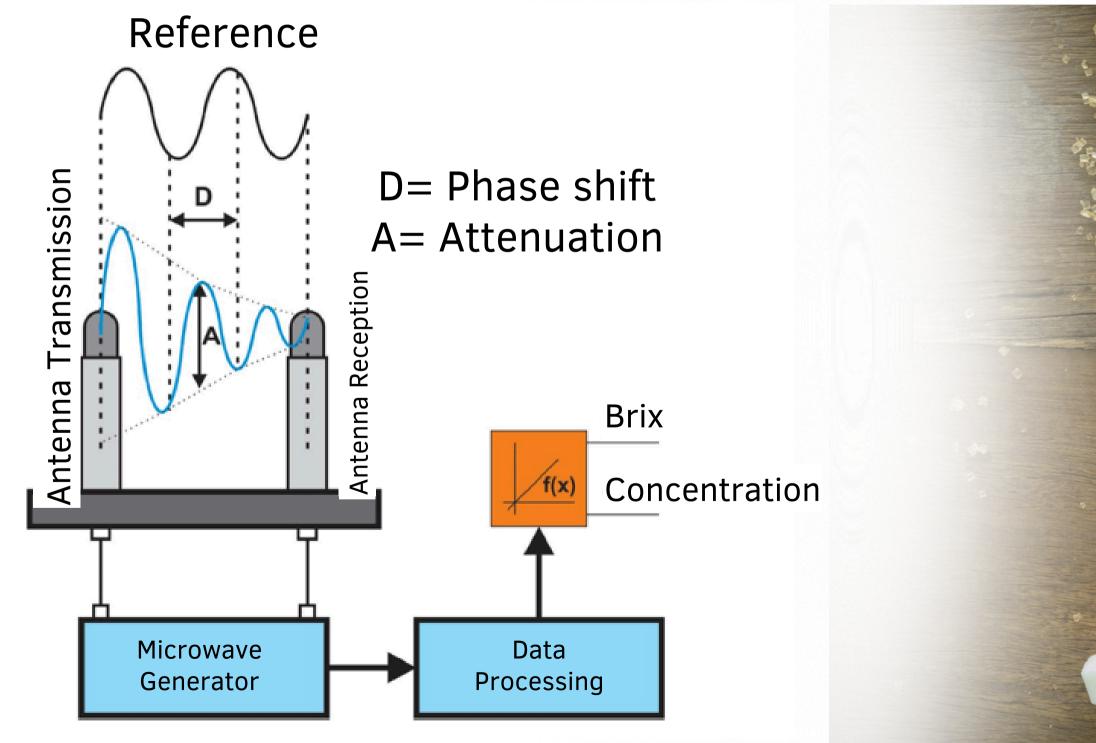
Provide online measurements of the Brix/Concentration in the most varied industrial processes. For example: Sugar crystallization, Syrup, must, juice concentration and others.

#### **APPLICATIONS – BRIX Measurements**





### How does it work?







### 01

Microwave Advanced Technology

Local & Global Support

### 05

Wide Spectrum of Applications

Easy to Install & Calibrate

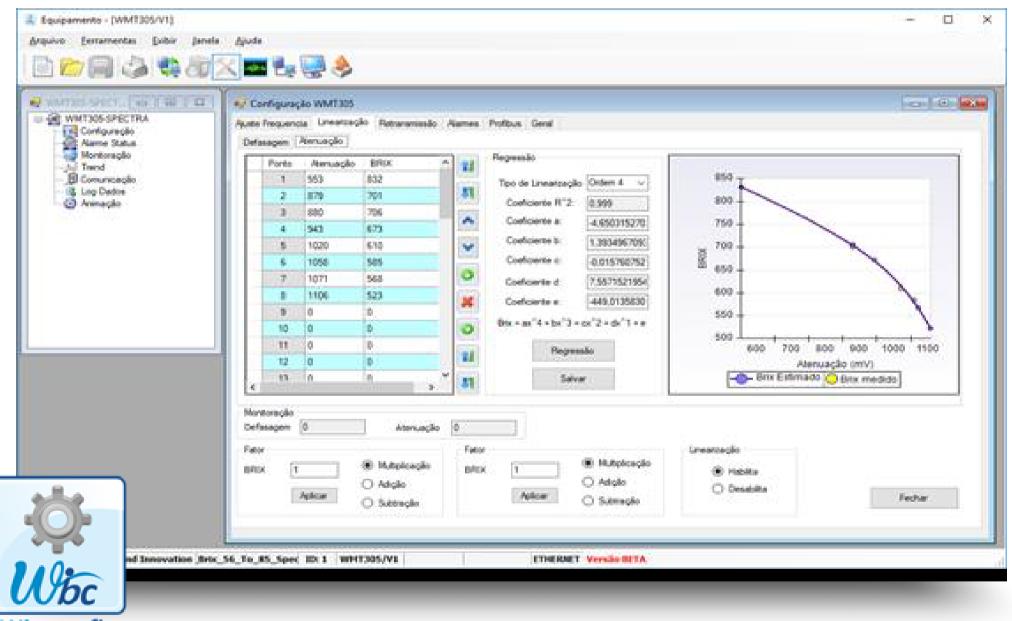
03

02

Training & Customization

# SPECTRA/\ Intelligence in Brix Measurement





Wireconfig



### SOME APPLICATIONS...





# SPECTRA Sugar Cristalization Process



## SPECTRA MARK

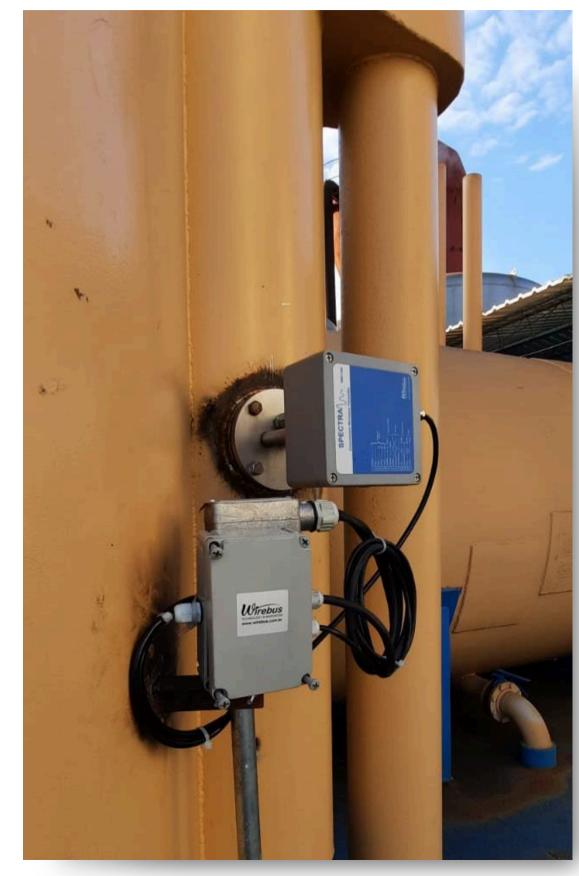
### Wort - Fermentation



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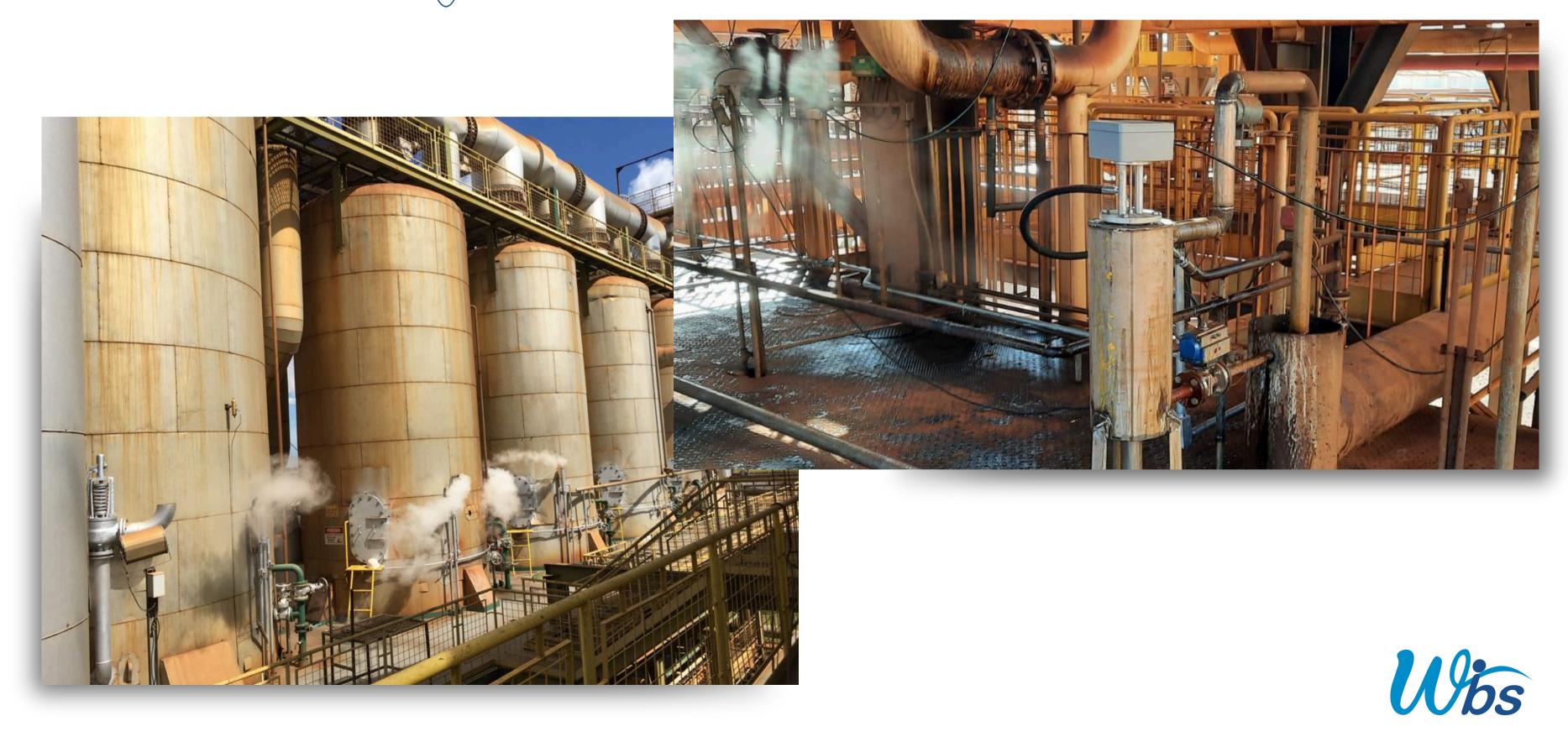


### Molasses Dilution





# SPECTRA MARK



### Evaporators

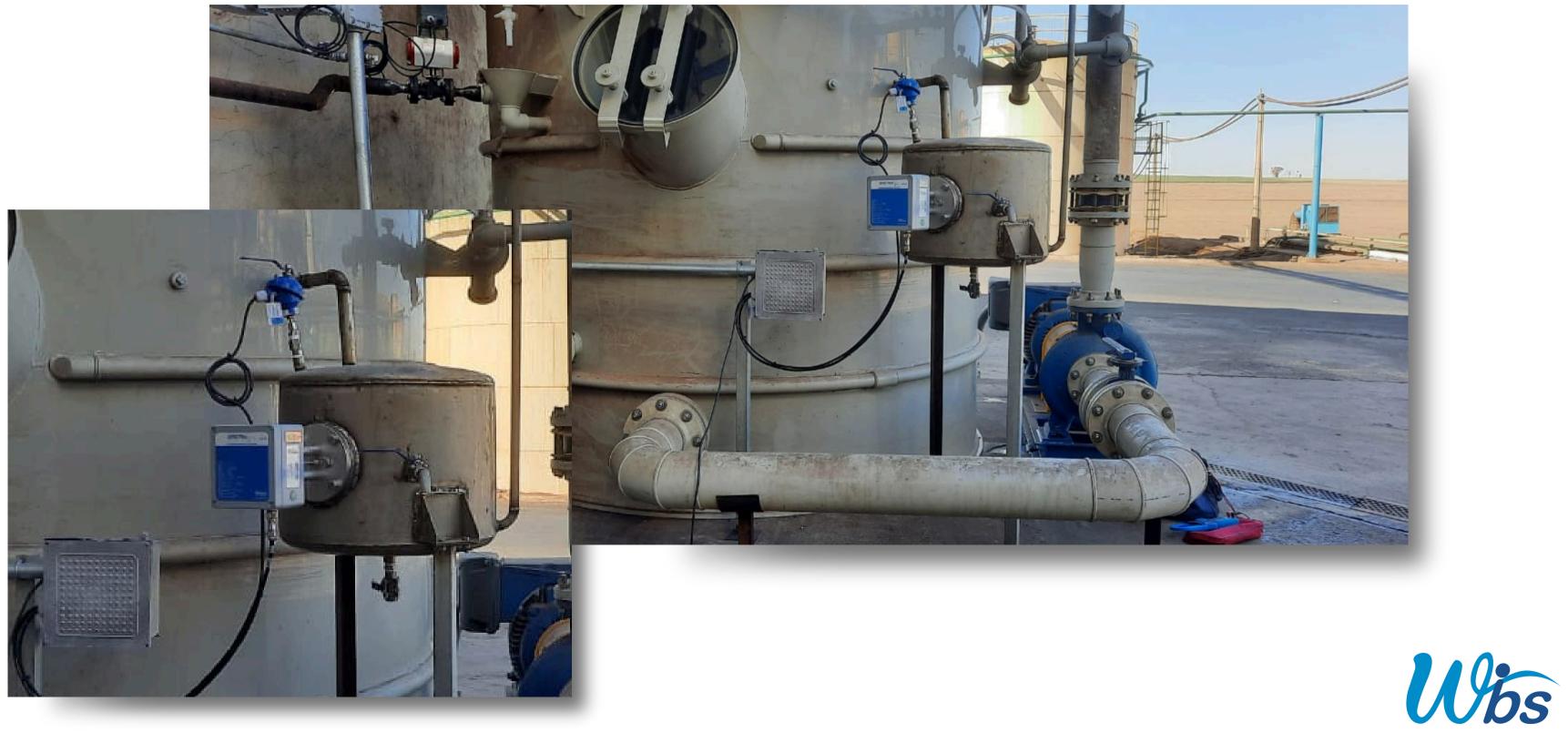
### Pre-Evaporator







### Sugar Powder Recovery (Belfano process)



## **BE A PARTNER!**



ALCOESTE BIOENERGIA FERNANDOPOLIS S.A RAÍZEN ENERGIA S.A (CONTINENTAL) USINA CORURIPE (CAMPO FLORIDO) SANTA MARIA INDUSTRIA DE ALCOOL LTDA USINA AÇUCAREIRA SÃO MANOEL S/A USINA ALTO ALEGRE (SANTO INÁCIO) USINA ALTO ALEGRE (ALTA FLORESTA) USINA SANTA ISABEL S/A USINA SANTO ANGELO LTDA OSWALDO RIBEIRO DE MENDONÇA (COLORADO) PEDRA AGROINDUSTRIAL S/A USINA CERRADÃO LTDA PARAPUÃ AGROINDUSTRIAL S/A USINA GOIANÉSIA S/A **TEREOS** (SEVERINIA) USINA ENERSUGAR S/A ACUCAR E ALCOOL USINA UNIÃO E INDÚSTRIA S/A WD AGROINDUSTRIAL LTDA RAÍZEN ENERGIA S.A (VALE DO ROSÁRIO) USINA SÃO LUIZ S/A NARDINI AGROINDUSTRIAL LTDA



### MORETHANA BRAND THE STRATEGIC PARTNER FOR THE FUTURE OF THE INDUSTRY

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