YUTECH INFRA RED LEVEL SENSING AND TRANSMISSION SYSTEM
FOR BOILER BAGASSE SILO
BASED ON YUTECH'S A15 INTELLIGENT ANALYZERS AND SYSTEMS PLATFORM

YUTECH

TM

YUTECH INFRA RED LEVEL SENSING AND TRANSMISSION SYSTEM FOR
BAGASSE SILO

SINCE 1978

YUTECH

Servicing the Sugar Industry since 1978

Bagasse Feeder

YUTECH INFRA RED LEVEL SENSING AND TRANSMISSION SYSTEM
FOR BOILER BAGASSE SILO
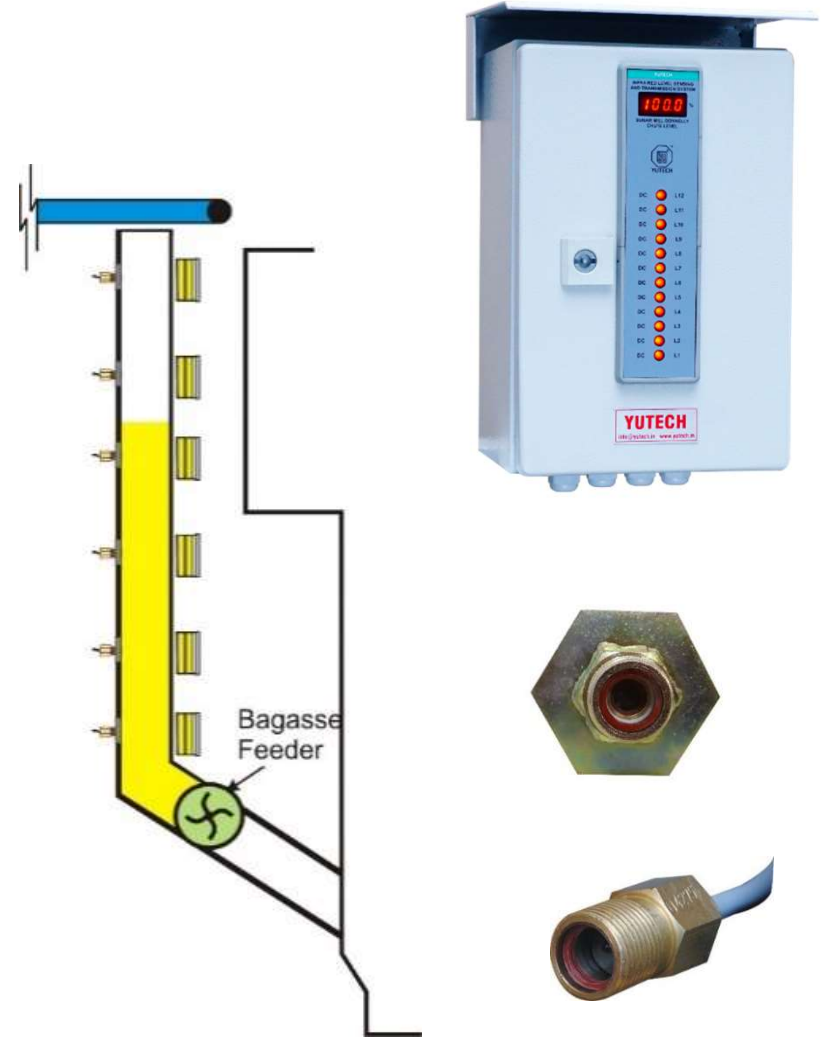## BASED ON YUTECH'S A15 INTELLIGENT ANALYZERS AND SYSTEMS PLATFORM

INFRA RED TYPE LEVEL SENSOR FOR BOILER BAGASSE SILO

Product Code:
ASDDCLIRS10 or ASDDCLIRS12

ASDDCLIRS10
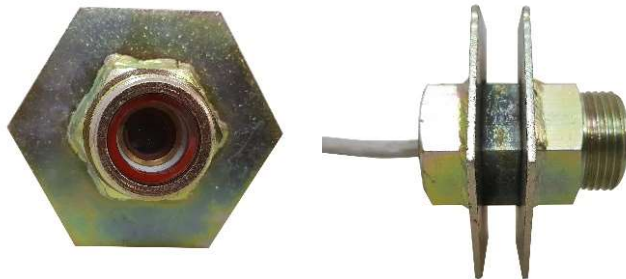
ASDDCLIRS12

IR Sensor's Light Sensing Band for IR Type Donnelly Chute Level Sensors
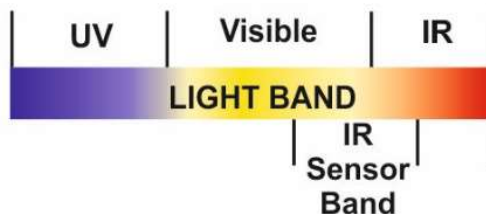
UV	Visible	IR

LIGHT BAND

IR Sensor Band

YUTECH INFRA RED LEVEL SENSING AND TRANSMISSION SYSTEM FOR BOILER BAGASSE SILO

Product Code:
BASE MODEL A15BSAACIR6C1R6FM;
CONTROLLER MODEL: A15BSAACIR6C2R6FMC
CONTROLLER WITH ETHERNET MODEL: A15BSAACIR6C2R6FMCEM (Modbus TCPIP)

YUTECH INFRA RED LEVEL SENSORS – FOR SUGAR MILL DONELLY CHUTE
PRODUCT CODE: ASDDCLIRS10 or ASDDCLIRS12

INSTALLATION PICTURE AND SCHEMATIC DIAGRAM

INFRA RED LEVEL SENSOR INSTALLATION ON DONNELLY CHUTE:
PICTURE

INFRA RED LEVEL SENSOR INSTALLATION ON BOILER BAGASSE SILO:
SCHEMATIC DIAGRAM

Sensor Mounting Plate welded on the Chute / Silo. Please see Operating Instructions for Installation Procedure and Guidance.

Proper Bagasse Silo Level Sensing Results in Continuous and Maintained Fuel Feeding to Boiler and avoids Silo overflow / choking

Infra Red Level Sensor Installation on Donnelly Chute

Bagasse Carrier

IR Type Bagasse Silo Level Sensors installed on Boiler

Lighting provided for Sensing

Bagasse Feeder

Boiler Furnace

YUTECH INFRA RED LEVEL SENSORS – FOR BOILER BAGASSE SILO
PRODUCT CODE: ASDDCLIRS10 or ASDDCLIRS12
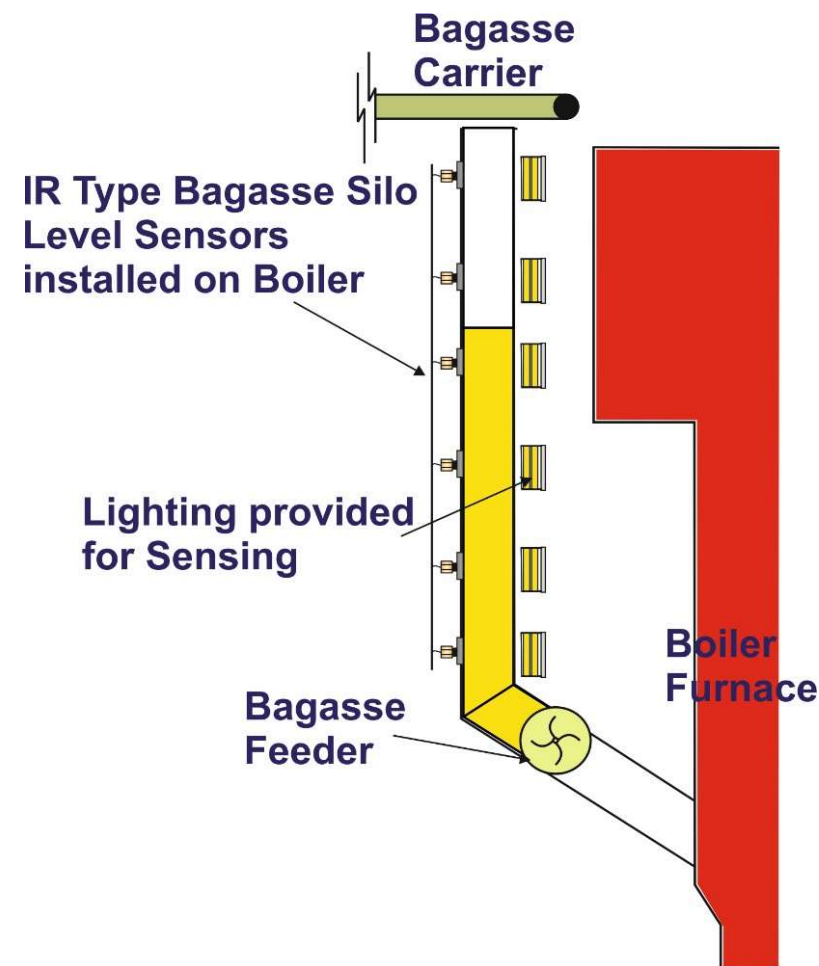
YUTECH INFRA RED LEVEL SENSORS:

➢ YUTECH invented this Technique in 1986
➢ 100% True Donnelly Chute Level Detection
➢ No False Indications due to Bagasse Powder
➢ No False Indications due to Cane Pieces
➢ No False Indications due to Juice Mist, Water Mist, Sticky Juice Residues, Juice Films and Dirt, Bagasse Powder & Juice Mix formed on the Donnelly Chute Walls
➢ True Chute Level Detection leads to Excellent Control
➢ Water Ingress and Dirt Proof
➢ YUTECH IR Sensors have Built-in Raining Bagasse Compensation and easily Sense Level through Raining Bagasse and Juice Moisture
➢ Infra Red Light known for Deep Penetration and used in Military Applications for Night Vision, Medical Applications like Deep Fomentation hence the choice of IR for this Critical Application.
➢ 500+ Sugar Mills use YUTECH IR Sensors in India, Asia Pacific and African Regions

➢ **ASDDCLIRS10**: Use for Level Sensing before Maceration Water is applied.
➢ **ASDDCLIRS12**: Use for Level Sensing after Maceration Water is applied. It is the High Temperature variant which can withstand Operating Temperatures up to 100-degree C.

Innovative Features for Ease of Operation and to save on Installation Cost and Materials:

- **Built-in Raining Bagasse Compensation**: to Accurately Sense, Analyze, Calculate and Derive Accurate Chute Level within a very challenging environment of Residual Juice Dirt, Sticky Bagasse Dust and Vibration

- **Built-in Controller (Optional):**
  Highly Accurate Fuzzy Logic Controller developed especially for Carrier and Mill Speed Control Applications.

- **Built-in 3-Point Auto/Manual Station to Select Control Output from (Optional):**
  a. Selector Switch for Local PID Output or DCS/PLC PID Output
  b. Manual Output for Trouble Shooting

  This feature simplifies installation by eliminating need for installing a Junction Box and Extra wiring.

Innovative Features for Ease of Operation and to save on Installation Cost and Materials:

- **Built-in Communication Links: See Product Code to select desired protocol Ethernet:**
  a. Modbus TCPIP or EtherNet/IP Communication Protocols
  b. External Controller Calibration Facility from DCS / PLC- SCADA / HMI System via Ethernet. Control Variables can be accessed and changed from DCS / PLC- SCADA / HMI.
  c. Process Value Data is Communicated for Data Acquisition and Data Storage within DCS / PLC- SCADA / HMI.

  RS485: Modbus RTU

  USB Communication Facility: For Calibration from PC or Android using System's USB Port. (This facility is available only with Ethernet Models).
  YUTECH Access App: Calibration Software can be installed in PC or Android.

TECHNICAL SPECIFICATIONS:

- **Power Supply:** 85 - 265 VAC, 50 – 60Hz
- **Analyzer Enclosure:** IP67 Field Mounted Dust and Moisture Proof
- **Input:**
  - IR Sensor Signals
- **Calibration can be done from :**
  - **Keyboard:** Keyboard with 5 Keys is provided in the Analyzer
  - **USB Port:** for Windows / Android based YUTECH-AccessApp
- **Display:** 4 Digit LED Dual Display, LED
- **Signal Output:**
  - 4 - 20 mA Processed Measured or Analyzed Variable Output
  - 4 - 20 mA Controller Output (Optional)
    - This Output can be Configured as below:
      - PID Output
      - Scaled Output
      - PID / Scaled Output can be selected by C2P or C2S in the Product Code.
  - Potential-Free Relay Output for each Sensor Input
  - Ethernet Communication Protocol: Modbus-TCPIP
    - Modbus TCPIP Communication can be selected by adding suffix EM to the Product Code this is available only in the Controller Model.

YUTECH INFRA RED TYPE LEVEL SENSING AND TRANSMISSION SYSTEM FOR BOILER BAGASSE SILO: TECHNICAL SPECIFICATIONS

- **Model Selection by Product Code:**
  - Example: A15DCAACIR6C1R6FM (6 Level System)
  - A15BSAACIR6C1R6FM: **A15BSA** is the Product Category or Platform based Donnelly Chute Level Analyzer
  - A15BSA**AC**IR6C1R6FM: **AC** means AC Power Supply (85 – 260VAC, 50-60Hz)
  - A15BSAAC**IR6**C1R6FM: **IR6** means 6 IR Sensors (number of Sensors **can** be selected as 4, 6, 8, 10, 12, and 16 Level System)
  - A15BSAACIR6**C1**R6FM: **C1** means 1 Channel 4-20mA Current Output which is the analyzed output of the sensed parameter
  - A15BSAACIR6C1**R6**FM: **R6** means 6 Potential-Free Relay Outputs. Relay Outputs will be as many as the Number of Sensors
  - A15BSAACIR6C1R6**FM**: **FM** means Field Mounted Enclosure
  - **Controller Model:**
    - A15BSAACIR6**C2**R6FMC: **C** is for Controller AND **C2** means 2 Channels of 4-20mA Current Output. 2nd Output is Control Output (PID / PI / P)
  - **Controller with Ethernet Model:**
    - A15BSAACIR6**C2**R6FM**CEM**: **CEM** is for Controller with Ethernet (Modbus TCPIP)
- **Product Codes for various Sensor Combinations are as below:**
  - A15BSAACIR4C1R4FM (4 Level System)
  - A15BSAACIR6C1R6FM (6 Level System)
  - A15BSAACIR8C1R8FM (8 Level System)
  - A15BSAACIR10C1R10FM (10 Level System)
  - A15BSAACIR12C1R12FM (12 Level System)
  - A15BSAACIR16C1R16FM (16 Level System)

DCS or PLC Based Turnkey Automations or Standalone Control Systems:

- Complete Sugar Mill Automation with all Loops like Cane Feeding, Mill Speed Controls, Imbibition and Juice Flow Controls etc
- Complete Sugar Process Automation with Loops like Evaporator, Pans, Continuous Pans, Melters Conditioners, Direct Contact Heaters, Condensers etc
- Complete Sugar Refinery / Pharma Grade Sugar Plant Automation with Loops like Pans, Continuous Pans, Melters, Melt Clarifier, Melt Filtration Systems, Direct Contact Heaters, Condensers etc
- Complete Boiler and Power Plant Automation
- Complete Sugar Plant Automation and Instrumentation
- Complete Distillery Automation and Instrumentation
- Complete Process Plant (Pharma / Food Processing / Cement / Steel) Automation and Instrumentation
- VCP / CVP / Batch Pan Automation
- Condenser Automation
- Continuous Centrifugal Machine Automation based on CSD or Iris Valve
- Evaporator and FFE Automation
- Direct Contact Heater Automation
- Vertical Crystallizer
- pH Control System

YUTECH FLUID-DENSITY-BRIX ANALYZER CUM CONTROL SYSTEM AND MOTORIZED FLUID-DENSITY SENSOR

BASED ON YUTECH'S A15 INTELLIGENT ANALYZERS AND SYSTEMS PLATFORM

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YUTECH
FLUID CONSISTENCY ANALYZER
AND VCP CHAMBER CONTROL SYSTEM

CONSISTENCY **081.2**

KW / RPM / LEVEL **075.0**
- KW
- RPM
- LEVEL
SET POINT **081.0**
- WATER INTAKE
% OUT **024.1**
- CONSISTENCY LOW

www.yutech.in

A/M

info@yutech.in, www.yutech.in

YUTECH FLUID-DENSITY-BRIX ANALYZER CUM CONTROL SYSTEM
PRODUCT CODE:
ANALYZER MODEL: A15FDAACSCTRC1D4R4FM,
ANALYZER AND CONTROLLER MODEL: A15FDAACSCTRC2D4R4FMC
ANALYZER AND CONTROLLER WITH ETHERNET MODEL:
A15FDAACSCTRC2D4R4FMCEM (Modbus TCPIP)

MOTORIZED FLUID-DENSITY SENSOR
PRODUCT CODE: ASDMFDS24DCC01

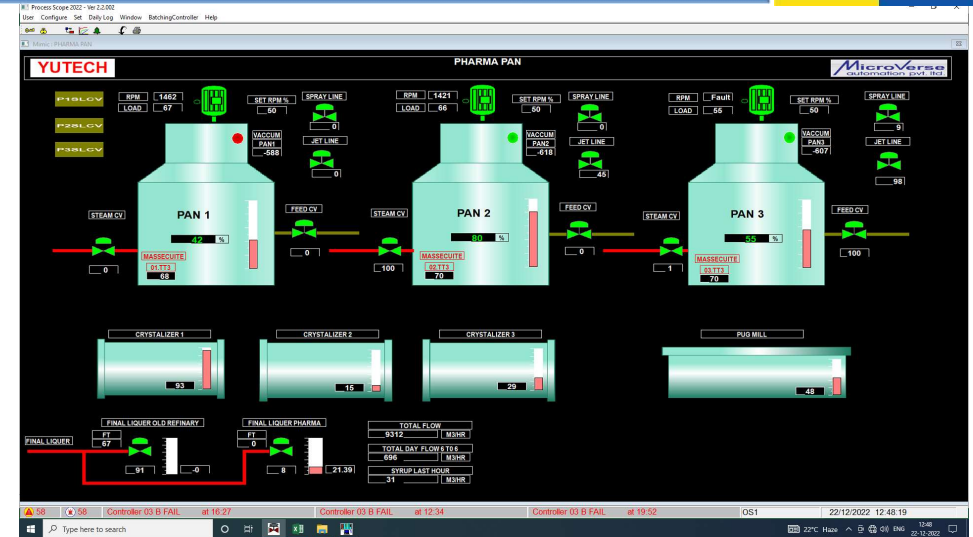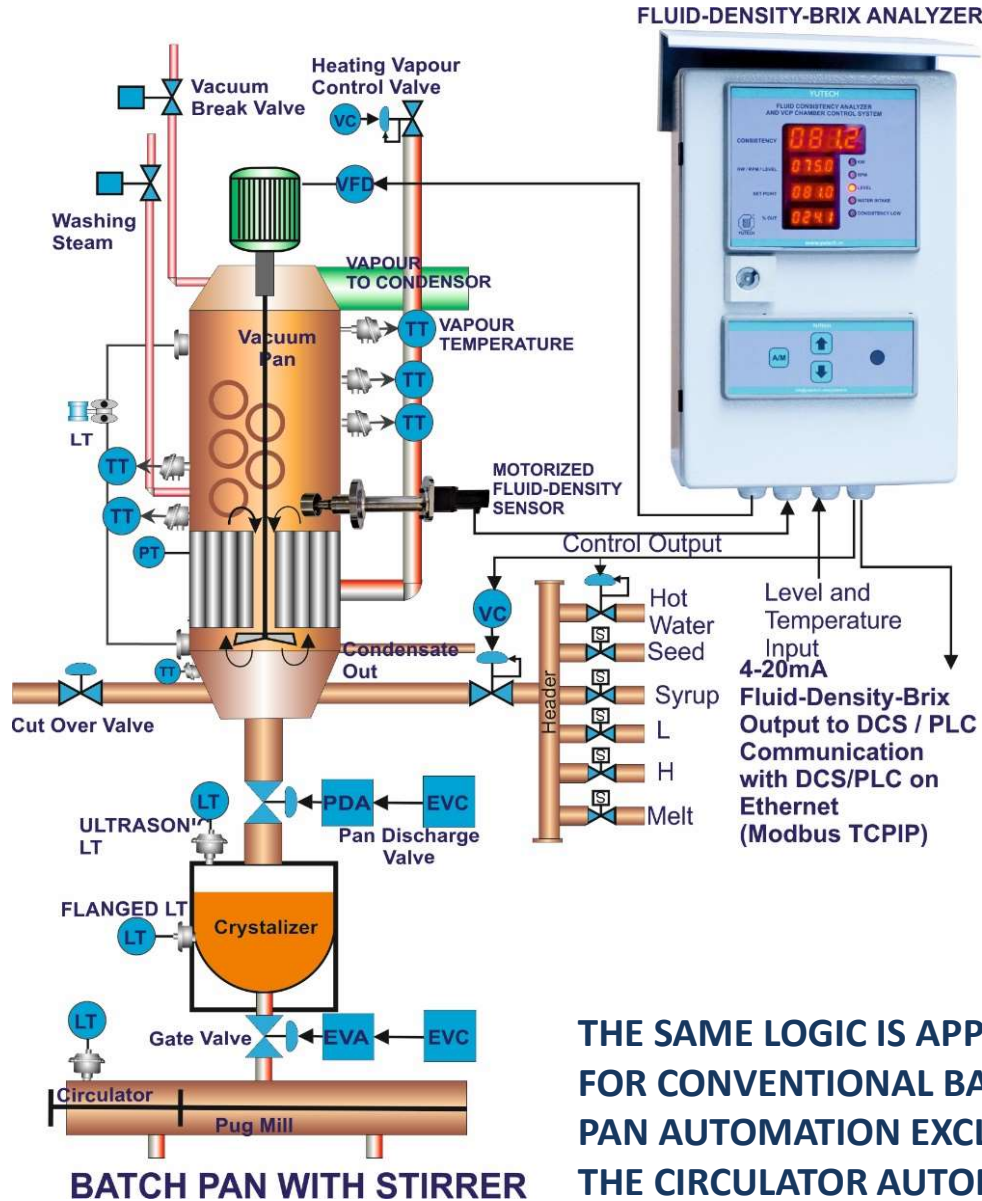**FLUID CONSISTENCY-BRIX ANALYZER AND CONTROL SYSTEM**

MOTORIZED FLUID CONSISTENCY SENSOR

YUTECH FLUID-DENSITY-BRIX ANALYZER CUM CONTROL SYSTEM AND MOTORIZED FLUID-DENSITY SENSOR
BATCH PAN AUTOMATION- BATCH PAN CONTROLS SCHEMATIC AND SCREENSHOT

FLUID-DENSITY-BRIX ANALYZER

MOTORIZED FLUID-DENSITY SENSOR

Control Output

Level and Temperature Input

4-20mA Fluid-Density-Brix Output to DCS / PLC Communication with DCS/PLC on Ethernet (Modbus TCPIP)

Hot Water
Seed
Syrup
L
H
Melt

BATCH PAN WITH STIRRER

THE SAME LOGIC IS APPLICABLE FOR CONVENTIONAL BATCH PAN AUTOMATION EXCLUDING THE CIRCULATOR AUTOMATION

SCREEN SHOT: BATCH PAN AUTOMATION

BATCH PAN AUTOMATION:

- FLUID-DENSITY-BRIX SENSING AND MATERIAL / WATER INTAKE CONTROL
- VARIABLE BRIX SET-POINT AS PER PAN LEVEL
- VFD SPEED CONTROL AS PER PAN LEVEL
- TEMPERATURE SENSING THROUGHOUT THE PAN TO ENSURE UNIFORM TEMPERATURE INSIDE PAN BODY
- BATCH COMPLETE INDICATION AND DROP SUGGESTION
- STANDALONE SYSTEM OR PLC / DCS BASED SYSTEM

YUTECH FLUID-DENSITY-BRIX ANALYZER CUM CONTROL SYSTEM AND MOTORIZED FLUID-DENSITY SENSOR
VERTICAL CONTINUOUS PAN AUTOMATION
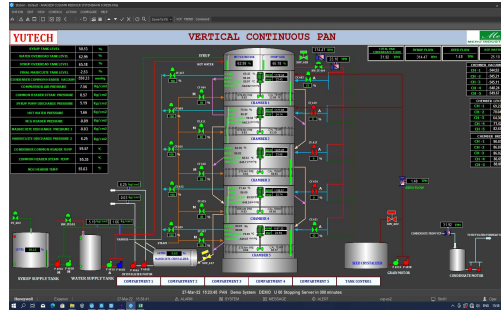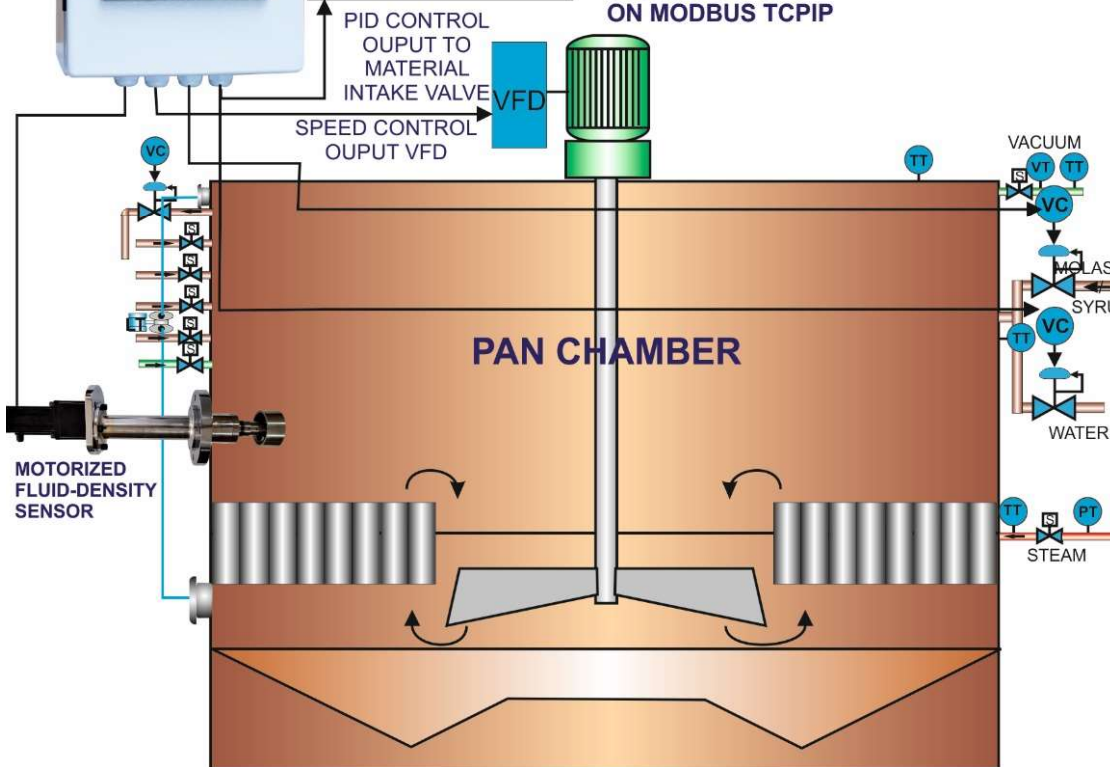## PAN CHAMBER CONTROL SCHEMATIC AND SCREENSHOT
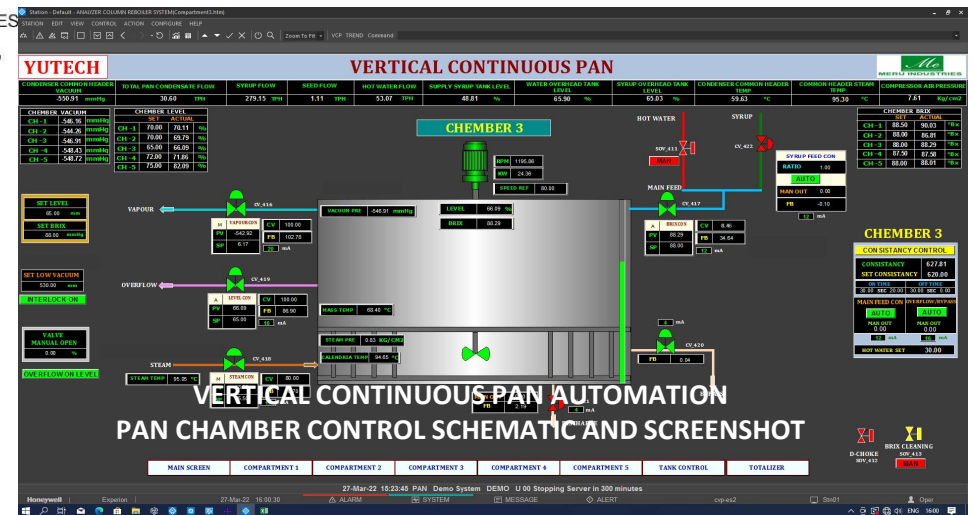

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VERTICAL CONTINUOUS PAN
AUTOMATION
OVERALL SCREENSHOT

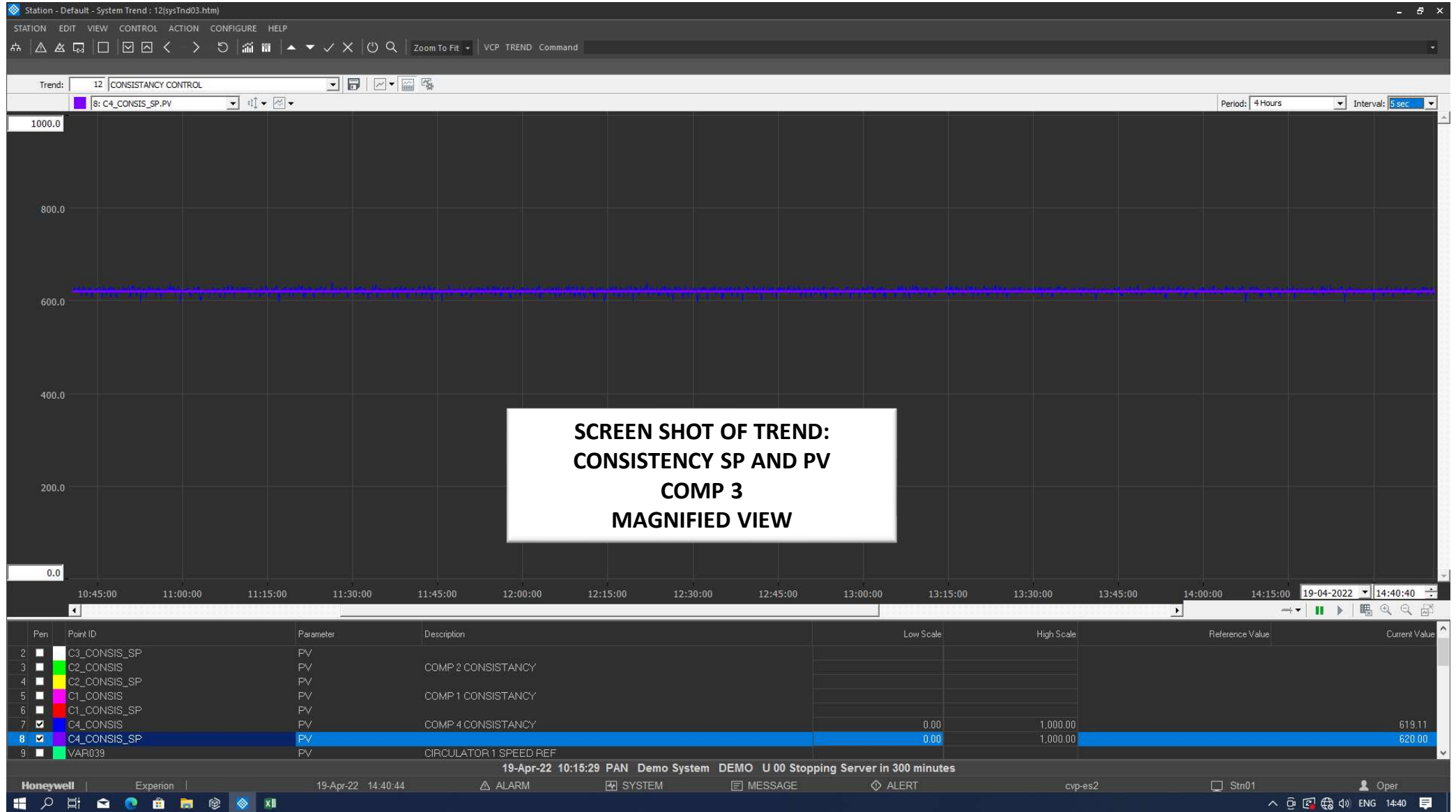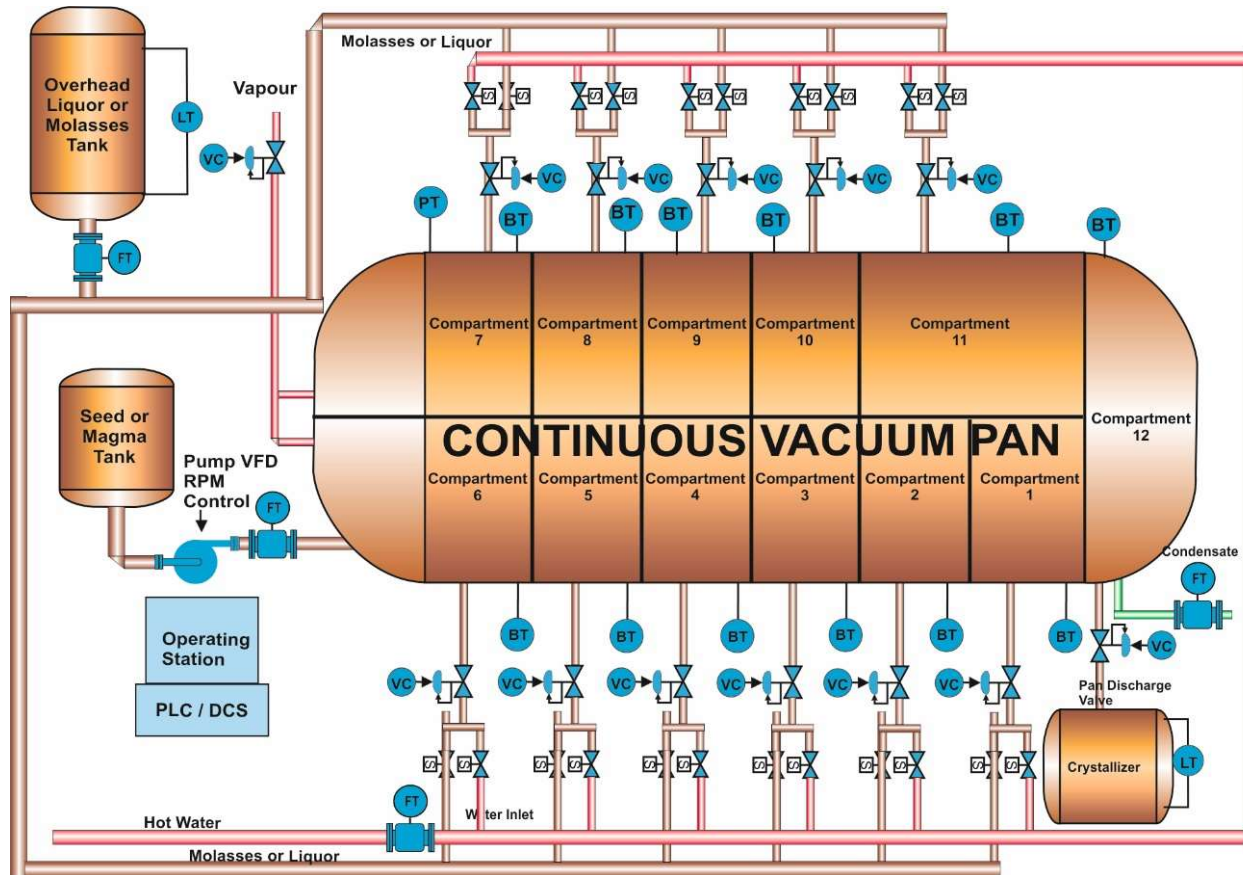## VERTICAL CONTINUOUS PAN AUTOMATION:

- **FLUID-DENSITY-BRIX SENSING AND MATERIAL / WATER INTAKE CONTROL**
- **VFD SPEED CONTROL AS PER PAN CHAMBER LEVEL**
- **TEMPERATURE SENSING THROUGHOUT THE PAN CHAMBERTO ENSURE UNIFORM TEMPERATURE INSIDE PAN CHAMBER BODY**
- **SEMI-AUTOMIC DROP CONTROL IN ABNORMAL CONDITIONS**
- **STANDALONE SYSTEM FOR PAN CHAMBER AND COMMUNICATION WITH MAIN VCP PLC / DCS SYSTEM**

FLUID-DENSITY-BRIX ANALYZER

MOTORIZED FLUID-DENSITYSENSOR
AND FLUID-DENSITY-BRIX ANALYZER
CUM VCP CHAMBER CONTROL
SYSTEM STAND ALONE UNIT

DCS / PLC

DATA FOR DCS
/ PLC CONTROLS
FOR VCP LOOPS
ON MODBUS TCPIP

PID CONTROL
OUPUT TO
MATERIAL
INTAKE VALVE

SPEED CONTROL
OUPUT VFD

VFD

VACUUM

MOLASSES /
SYRUP

WATER

STEAM

PAN CHAMBER

MOTORIZED
FLUID-DENSITY
SENSOR

VERTICAL CONTINUOUS PAN AUTOMATION
PAN CHAMBER CONTROL SCHEMATIC AND SCREENSHOT

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Station - Default - System Trend : 12(sysTnd03.htm)

STATION   EDIT   VIEW   CONTROL   ACTION   CONFIGURE   HELP

Zoom To Fit ▾   VCP   TREND   Command

Trend: 12   CONSISTANCY CONTROL

8: C4_CONSIS_SP.PV

Period: 4 Hours   Interval: 5 sec

1000.0

800.0

600.0

400.0

200.0

0.0

**SCREEN SHOT OF TREND:
CONSISTENCY SP AND PV
COMP 3
MAGNIFIED VIEW**

10:45:00   11:00:00   11:15:00   11:30:00   11:45:00   12:00:00   12:15:00   12:30:00   12:45:00   13:00:00   13:15:00   13:30:00   13:45:00   14:00:00   14:15:00   19-04-2022 ▾ 14:40:40

Pen	Point ID	Parameter	Description	Low Scale	High Scale	Reference Value	Current Value
2	☐ C3_CONSIS_SP	PV					
3	☐ C2_CONSIS	PV	COMP 2 CONSISTANCY				
4	☐ C2_CONSIS_SP	PV					
5	☐ C1_CONSIS	PV	COMP 1 CONSISTANCY				
6	☐ C1_CONSIS_SP	PV					
7	☑ C4_CONSIS	PV	COMP 4 CONSISTANCY	0.00	1,000.00		619.11
8	☑ C4_CONSIS_SP	PV		0.00	1,000.00		620.00
9	☐ VAR039	PV	CIRCULATOR 1 SPEED REF				

19-Apr-22 10:15:29 PAN Demo System   DEMO   U 00 Stopping Server in 300 minutes

Honeywell | Experion   19-Apr-22 14:40:44   ⚠ ALARM   ⊞ SYSTEM   ▤ MESSAGE   ◇ ALERT   cvp-es2   ☐ Stn01   👤 Oper

ENG 14:40

YUTECH FLUID-DENSITY-BRIX-ANALYZER OR BRIX ANALYZER CUM CONTROL SYSTEM AND MOTORIZED FLUID-DENSITY SENSOR

CONTINUOUS VACUUM PAN AUTOMATION
CVP CONTROL SCHEMATIC AND SCREENSHOT


VERTICAL CONTINUOUS PAN AUTOMATION:

- YUTECH FLUID-DENSITY-BRIX OR YUTECH BRIX SENSING AND MOLASSES / WATER INTAKE CONTROL FOR EACH COMPARTMENT
- VFD SPEED CONTROL AS PER PAN CHAMBER LEVEL FOR LAST CHAMBER IF INSTALLED
- TEMPERATURE SENSING THROUGHOUT THE PAN CHAMBERTO ENSURE UNIFORM TEMPERATURE INSIDE PAN CHAMBER BODY
- SEED FLOW CONTROL MAINTAINING MOLASSES TO SEED RATIO

VERTICAL CONTINUOUS PAN AUTOMATION:

- CALENDRIA VAPOUR PRESSURE CONTROL
- STANDALONE SYSTEM FOR PAN CHAMBER AND COMMUNICATION WITH MAIN VCP PLC / DCS SYSTEM
- SEED OR MAGMA FLOW CONTROL WITH RESPECT TO MOLASSES OR LIQUOR FLOW
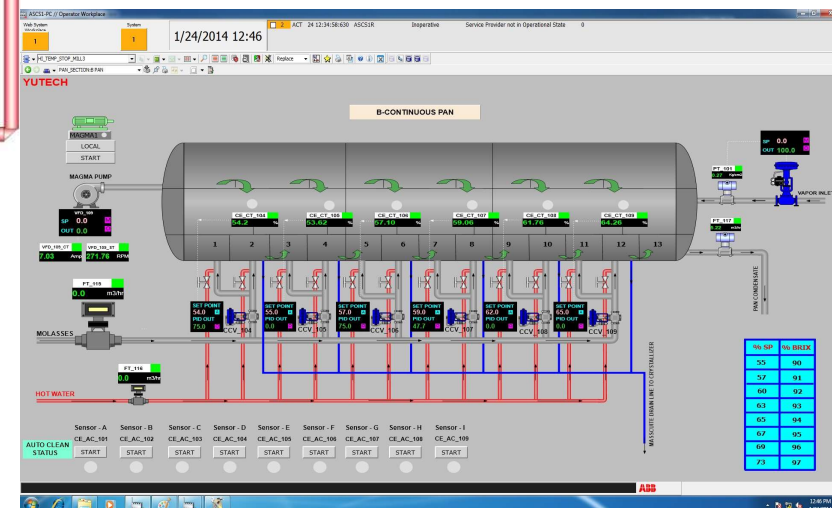
YUTECH FLUID-DENSITY-BRIX ANALYZER OR BRIX ANALYZER CUM CONTROL SYSTEM AND MOTORIZED FLUID-DENSITY SENSOR

SUGAR MELTER AND MOLASSES CONDITIONER AUTOMATION
SCREENSHOT, FIELD MOUNTING PICTURE, AND SCHEMATIC

Field Instruments Installation

Screen Shot: Molasses Conditioner and Sugar Melter Automation
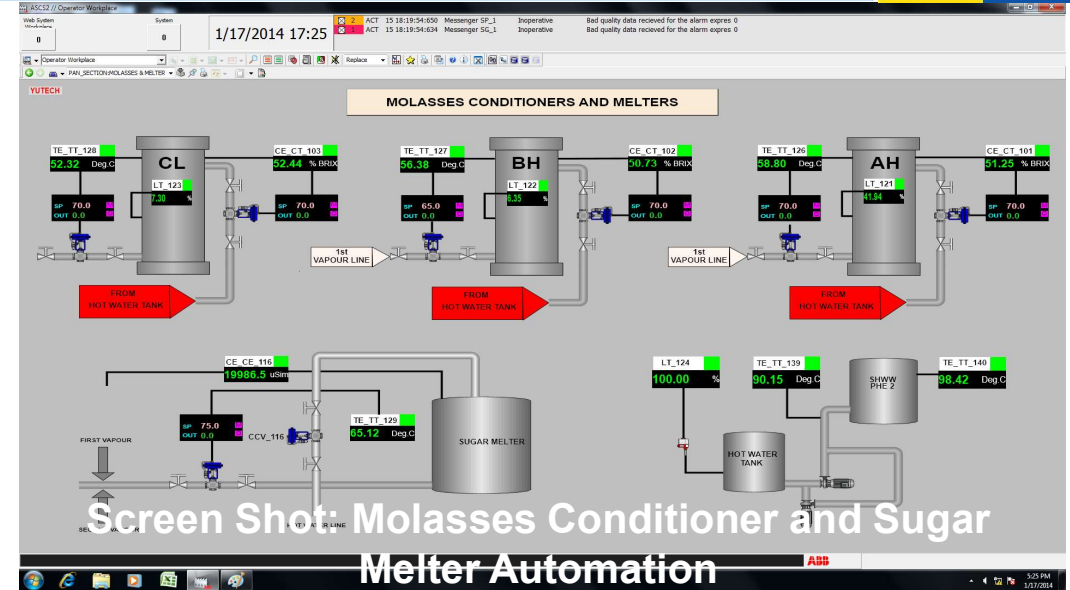
Schematic Diagrams: Molasses Conditioner and Sugar Melter Automation
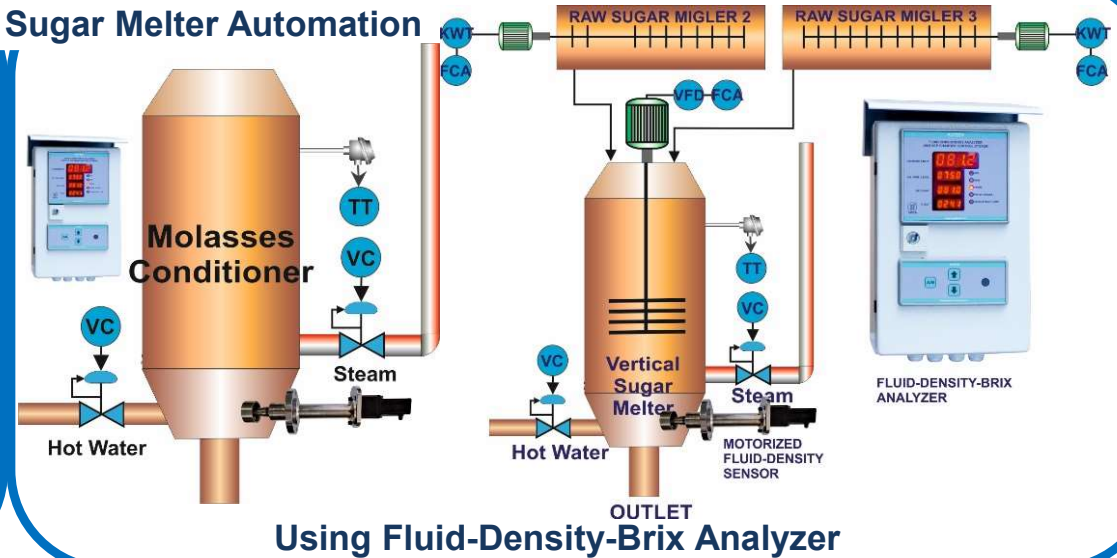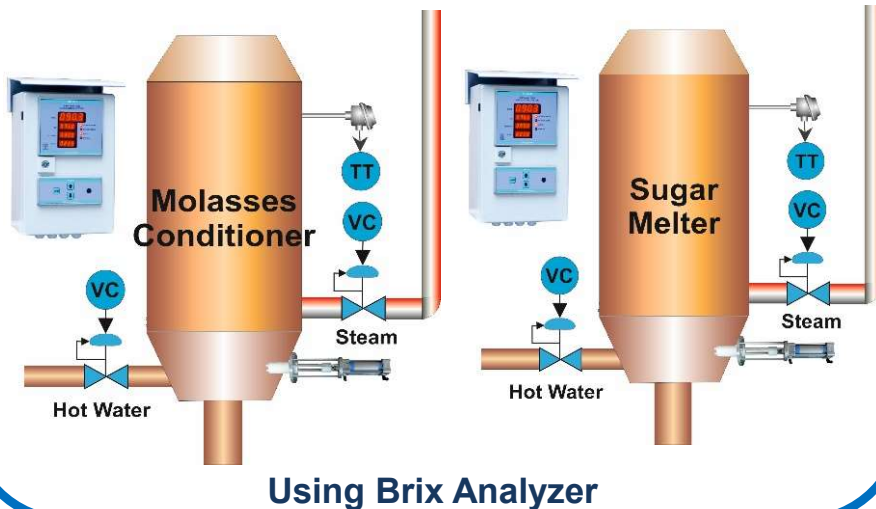
Using Brix Analyzer

Using Fluid-Density-Brix Analyzer

YU SINCE 1978

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BRIX ANALYZER
PRODUCT CODE:
BASE MODELS: A15BAACBSRC1D4R2FM,
CONTROLLER MODEL: A15BAACBSRC2D4R4FMC
CONTROLLER WITH ETHERNET MODEL:
A15BAACBSRC2D4R4FMCEM (Modbus TCPIP)

AUTO-RETRACTABLE SELF-CLEANING BRIX SENSOR
PRODUCT CODE:
ASDBSRSCW1EV03

A15BAACBSRC1D4R2FM1

A15BAACBSRC2D4R2FM1EM

ELECTRODE IN SENSING POSITION

ELECTRODE IN CLEANING POSITION

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pH ANALYZER AND CONTROL SYSTEM
PRODUCT CODE:
ANALYZER MODEL: A15PHAACPETRC1D4R4FM,
ANALYZER AND CONTROLLER MODEL:
A15PHAACPETRC2D4R4FMC
ANALYZER AND CONTROLLER WITH ETHERNET MODEL:
A15PHAACPETRC2D4R4FMC
EM (Modbus TCPIP)

pH ANALYZER

pH ANAzLYZER AND CONTROL SYSTEM

CSD OR IRIS VALVE BASED CONTINUOUS CENTRIFUGAL MACHINE FEED AUTOMATION SYSTEM

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CONTINUOUS CENTIFRUGAL MACHINE AUTOMATIC FEED CONTROL SYSTEM

PRODUCT CODE:
CONTROLLER MODEL: A15CCMAACCTC1C2D4R4FMC
CONTROLLER WITH ETHERNET: MODELA15CCMAACCTC1C2D4R4FMCEM (Modbus TCPIP)
CONCENTRIC SPLIT DIAPHRAGM (CSD) CONTROL VALVE ALSO CALLED IRIS TYPE VALVE: PRODUCT CODE: C15CSDV3D6EP

CSD OR IRIS VALVE

CONTINUOUS CENTIFRUGAL MACHINE AUTOMATIC FEED CONTROL SYSTEM
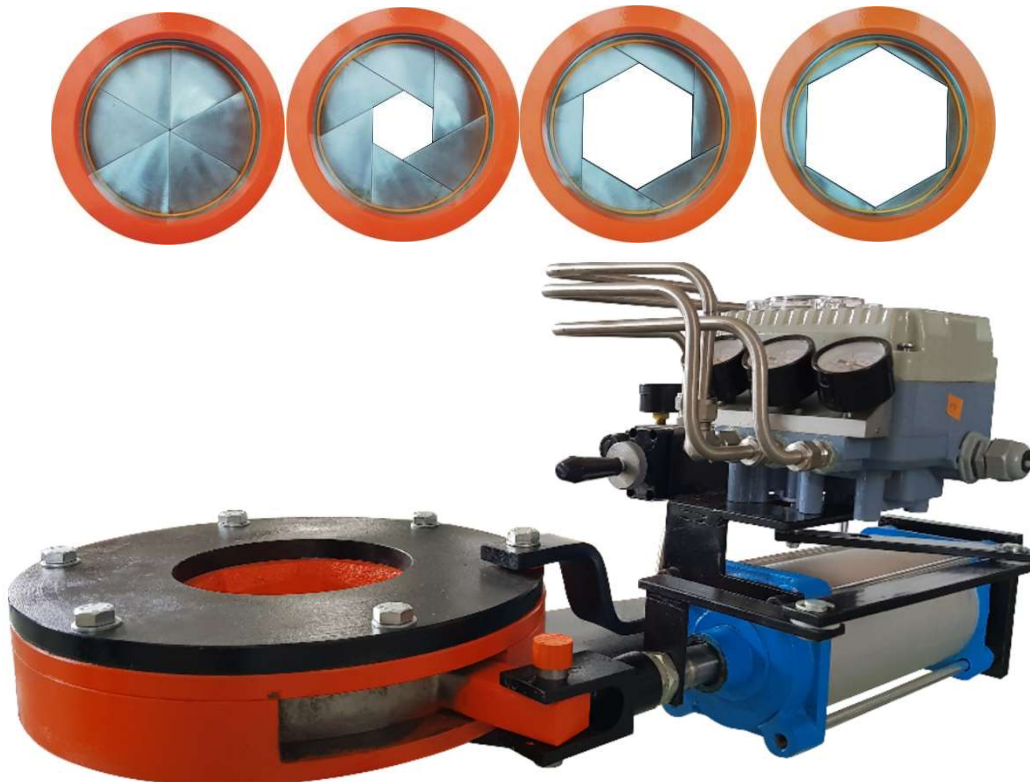
YUTECH CONDENSER CONTROL SYSTEM FOR PANS AND EVAPORATORS

SCHEMATIC DIAGRAM: CONDENSER AUTOMATION USING YUTECH CONDENSER CONTROLLER
SCREEN SHOT: CONDENSER CONTROL SYSTEM IMPLEMENTED USING DCS / PLC

SCHEMATIC DIAGRAM AND SCREENSHOT: CONDENSER CONTROL
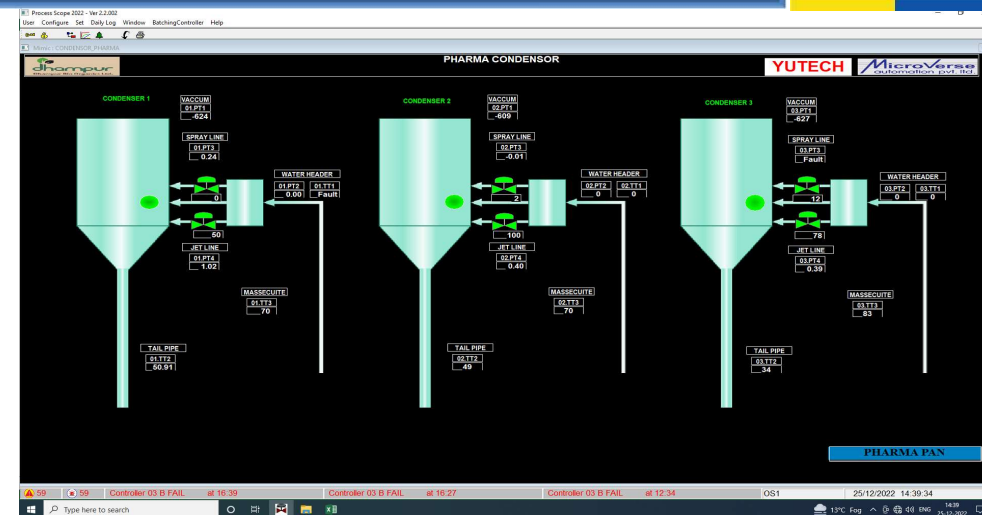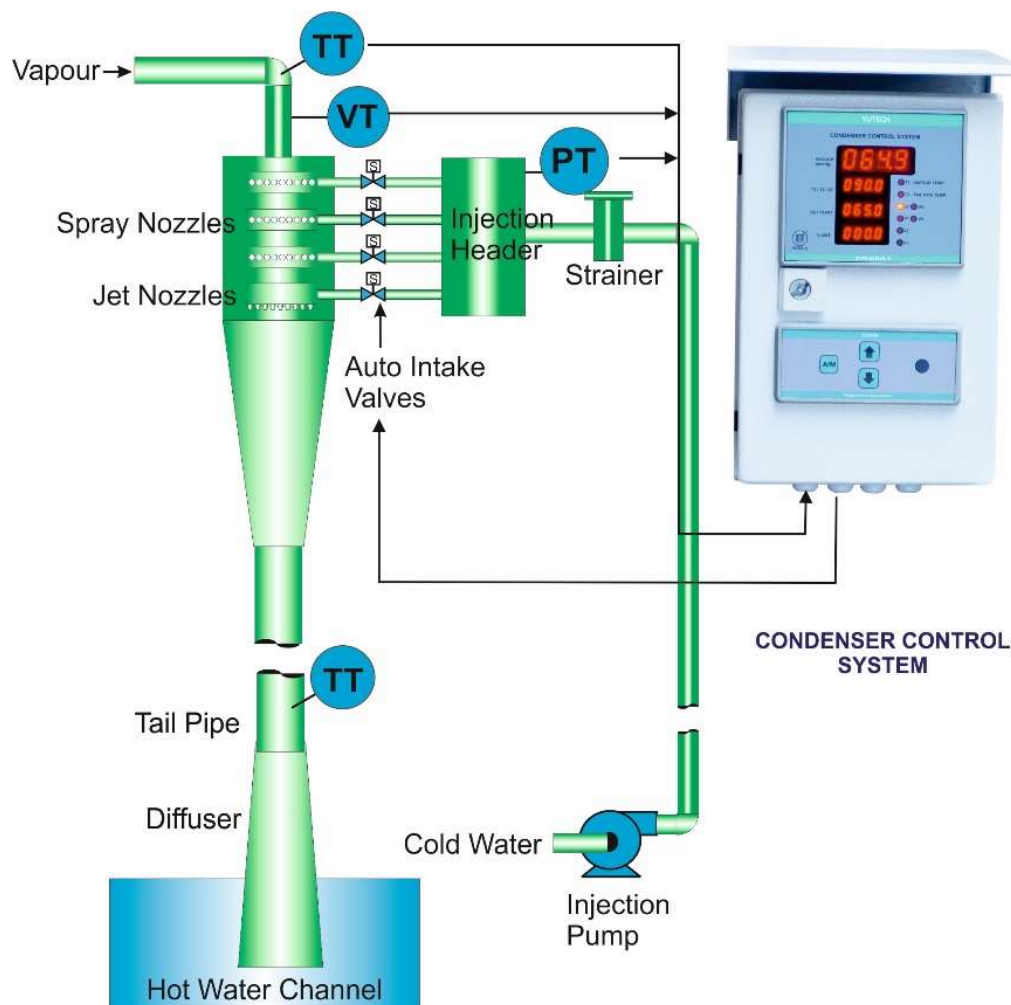
CONDENSER AUTOMATION:

➤ Vapour Vacuum and Temperature sensed

➤ Tail Pipe Condensate Temperature Sensed in Tail Pipe

➤ Temperature Difference Calculated

➤ Spray Jet Water Quantity is Automatically Controlled wrt Remote Set Point generated by Vacuum and Temperature difference.

➤ Number of Jets & Nozzles and Jet & Nozzle Diameters designed as per Condenser Capacity

➤ Control Valve is used to control Spray Jets in case of Single Entry Condenser.

➤ Water Pressure in the Common Injection Header maintained by Controlling Injection Pump VFD

➤ Jet Compartment Controlled by Separate Valve

FIELD MOUNTED ANALYZERS AND CONTROL SYSTEMS FOR PROCESS, PHARMA, DAIRY AND SUGAR INDUSTRY:

SUGAR PROCESS ANALYZERS AND CONTROLS:
- **HIGH FREQUENCY BRIX ANALYZER AND BRIX ANALYZER AND AUTO-RETRACTABLE SELF-CLEANING BRIX SENSOR**
- **FLUID-DENSITY-BRIX ANALYZER CUM CONTROL SYSTEM AND MOTORIZED FLUID DENSITY SENSOR**
- **CONDUCTIVITY ANALYZER**
- **PH ANALYZER**
- **CONTINUOUS CENTRIFUGAL MACHINE AUTOMATION SYSTEM USING CONCENTRIC SPLIT DIAPHRAGM CONTROL VALVE ALSO CALLED IRIS VALVE.**
- **CONDENSER CONTROL SYSTEM:** MULTIPLE OR SINGLE WATER SPRAY AND JET ENTRY CONDENSER CONTROLS.

SUGAR MILL AND BOILER ANALYZERS AND CONTROLS:
- **INFRA RED TYPE LEVEL SENSING AND TRANSMISSION SYSTEM:** SUGAR MILL DONNELLY CHUTES.
- **INFRA RED TYPE LEVEL SENSING AND TRANSMISSION SYSTEM:** BOILER BAGASSE SILOS OR CHUTES.
- **CAPACITIVE TYPE LEVEL SENSING AND TRANSMISSION SYSTEM:** SUGAR MILL DONNELLY CHUTES.

DATA ACQUISITION AND COMMUNICATION:
- **FIELD MOUNTED DATA ACQUISITION AND COMMUNICATION SYSTEM:** ETHERNET / WIRELESS COMMUNICATION
- **IOT FIELD MOUNTED DATA ACQUISITION AND COMMUNICATION SYSTEM:** PROCESS DATA TRANSMISSION AND INTERNET COMMUNICATION ON GSM AND WIFI
- **16 CHANNEL SCANNER WITH MODBUS RTU**
- **16 CHANNEL SCANNER WITH MODBUS TCPIP**

YUTECH HALL'S EFFECT TYPE DISPLACEMENT SENSING AND TRANSMISSION SYSTEM
FOR SUGAR MILL ROLLER LIFT AND CANE BLANKET LEVEL
BASED ON YUTECH'S A12 INTELLIGENT ANALYZERS AND SYSTEMS PLATFORM

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HALL'S EFFECT TYPE SENSOR FOR CANE BLANKET LEVEL SENSING
Product Code: ASDCBLS1210

HALL'S EFFECT TYPE SENSOR FOR TOP ROLLER LIFT SENSING
Product Code: ASDTRLS1210

YUTECH HALL'S EFFECT TYPE DISPLACEMENT SENSING AND TRANSMISSION SYSTEM
Product Code:
CANE BLANKET LEVEL INDICATOR TRANSMITTER: A12DCHTACCBLS2C2R2GFM;
TOP ROLLER LIFT INDICATOR TRANSMITTER: A12DCHTACTRLS2C2R2GFM;
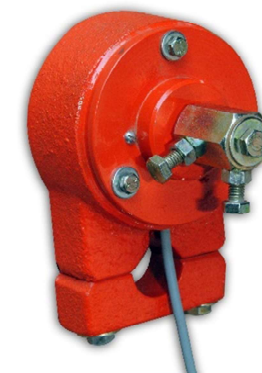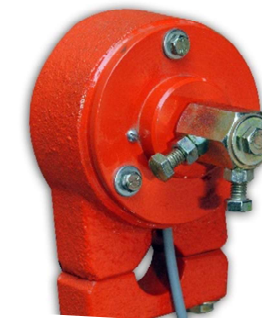

TOP ROLLER LIFT SENSORS

TOP ROLLER LIFT INDICATOR CUM TRANSMITTER

CANE BLANKET LEVEL INDICATOR CUM TRANSMITTER

CANE BLANKET LEVEL SENSORS

Instruments Specifically Designed and Manufactured for Sugar Mills having IP 67 protection class Enclosures:

- Cane Blanket Level Indicators & Transmitters with Sensor Options of:
    - Hall's Effect Type Sensors
    - Ultrasonic Type Sensors
- Mill Top Roller Lift Indicators & Transmitters with Sensor Options of:
    - Hall's Effect Type Sensors
    - Ultrasonic Type Sensors

Field Mounted Instruments having IP67 protection class Enclosures for any Process Applications:

- Field Mounted Universal Input Process Indicator & Transmitter with Ethernet / Wireless Communication Facility and 4-20mA Retransmission and 2 Potential-Free Relay Outputs
- Field Mounted Dual Channel Universal Input Process Indicator & Transmitter with Ethernet / Wireless Communication Facility and with two 4-20mA Retransmission and two Potential-Free Relay Outputs
- Field Mounted PID Controller and Time Proportionate PID Controller
- Field Mounted Customized Pre-fed Logic Indicators and Controllers
- Function Display
- Electro-Pneumatic Valve Positioner with Position Feedback
- Field Mounted Auto / Manual Stations with External Pot Facility
- Field Mounted Flow Totalizer

GENERAL INSTRUMENTS FOR ANY PROCESS APPLICATIONS:

➢ Universal Input Process Indicator & Transmitter
➢ Dual Channel Universal Input Process Indicator & Transmitter
➢ PID Controller
➢ Time Proportionate PID Controller
➢ Universal Input Jumbo Displays of Digit Sizes from 1" to 12"
➢ Universal Input Jumbo Displays of Digit Sizes from 1" to 12" with 4-20mA Retransmission and 2 Potential-Free Relay Outputs
➢ Modbus RTU Input Jumbo Displays of Digit Sizes from 1" to 12"
➢ Special Machine Controllers customized for YUTECH Machines
➢ Auto / Manual Stations with External Pot Facility
➢ 8 AND 16 Channel Scanner

I/O AND PROTOCOL CONVERTER PRODUCTS:

➢ Universal Input Process Indicator with Modbus RTU, 4-20mA Retransmission and 2 Potential-Free Relay Outputs
➢ 8 Channel Universal Input Card with Modbus RTU Communication
➢ 8 Channel Universal Input Card with Wireless Communication
➢ Wireless to Ethernet Protocol Converter
➢ Modbus RTU to Modbus TCP/IP Serial to Ethernet Protocol Converter
➢ EtherNetIP TO Modbus TCP/IP Protocol Converter

YUTECH SUGAR MILL PROCESS INSTRUMENTS
MEASURING SUGARS BRIX BY BRIX
YUTECH FLOW CONTROLS
CONTROL SAVE EARN

YUTECH AUTOMATION
THE SWEETENER TO SUCCESS
YUTECH INSTRUMENTS
ANALYZE TRANSMIT CONTROL COMMUNICATE

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YUTECH
SERVICE SUPPORT

FACTORY OWNERS' PEACE OF MIND

SAVE FUEL, REDUCE CARBON FOOTPRINT,
MAKE THE WORLD GREENER
AND YET, MAKE MONEY
THANK YOU