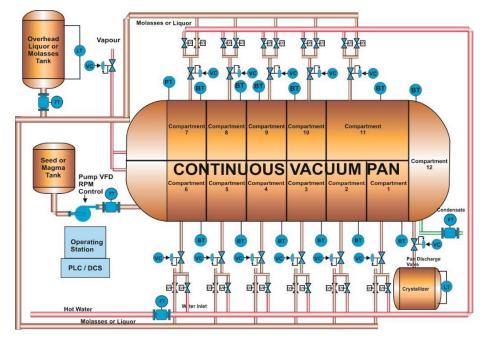
CONTINUOUS VACUUM PAN (CVP) AUTOMATION WITH BRIX ANALYZER AND DENSITY BRIX SENSOR





CONTINUOUS PAN AUTOMATION FEATURES:

- ACCURATE
 COMPARTMENT BRIX
 SENSING USING FLUID
 DENSITY BRIX SENSOR
 A24FDSRS2 OR HF BRIX
 SENSOR
- > CONTROLLED INTAKE
 AS PER SET POINT TO
 ACCURATELY
 MAINTAIN
 COMPARTMENT BRIX
- NO FALSE GRAINS, HENCE LESS WATER AND STEAM CONSUMPTION THUS INCREASED BAGASSE SAVING
- > INCREASED SUGAR PRODUCTION
- > TEMPERATURE
 SENSING
 THROUGHOUT THE CV
 PAN ENSURES
 UNIFORM
 TEMPERATURE INSIDE
 THE CV PAN BODY
- > STANDALONE SYSTEM FOR CV PAN HAVING COMMUNICATION WITH MAIN PLC / DCS SYSTEM

CONTINUOUS VACUUM PAN AUTOMATION:

SEED OR MAGMA FLOW CONTROL WITH RESPECT TO MOLASSES OR LIQUOR FLOW:

- MOLASSES AND SEED FLOWMETERS SENSE FLOW.
- ➤ THE RATIO OF SEED TO MOLASSES FLOW IS CONTROLLED IN THE REQUIRED PROPORTION BY CONTROLLING SEED / MAGMA PUMP VFD.

INDIVIDUAL COMPARTMENT BRIX CONTROL BY AUTO-FEEDING MOLASSES OR WATER INTO EACH COMPARTMENT:

- FLUID-DENSITY-BRIX OR BRIX SENSING OF EACH COMPARTMENT BY YUTECH FLUID-DENSITY-BRIX ANALYZER OR YUTECH BRIX ANALYZER
- CONTROL OF MOLASSES INTAKE VALVE WITH BRIX SET POINT, AND FLUID-DENSITY-BRIX AS PROCESS VALUE IN A PID MODE
- ➤ ADDITION OF WATER ONLY IF EXTREMELY NECESSARY.

BRIX ANALYZER AND FLUID DENSITY BRIX SENSOR

SUGAR PROCESS AND REFINERY APPLICATIONS: SENSES BRIX AND DENSITY IN KG/M³ ACCURATELY SENSES BRIX AND DENSITY IN KG/M³ WITH VACUUM, LEVEL AND TEMPERATURE COMPENSATION



FLUID DENSITY BRIX ANALYZER TECHNICAL SPECIFICATIONS:

PRODUCT CODE: A15FDACFM1230 / A24FDACFMEM1230

- POWER SUPPLY: 85 265 VAC, 50 60HZ
- ➤ INPUTS:
 - > FLUID-DENSITY SENSOR
 - > RTD PT100 TEMPERATURE SENSOR
 - > 8-POINT LEVEL SENSORS (CONDUCTIVITY-BASED DIGITAL SWITCH TYPE)
 - > 4-20MA: INPUT FROM VACUUM TRANSMITTER (OPTIONAL, NOT A PART OF STANDARD SUPPLY)
 - ➤ 4-20MA: INPUT FROM DIFFERENTIAL PRESSURE TRANSMITTER WITH EXTENDED DIAPHRAGM WITH CAPILLARY TUBES (OPTIONAL, NOT A PART OF STANDARD SUPPLY)
- **OUTPUTS:**
 - ➤ 4-20MA: BRIX OUTPUT
 - 4-20MA: PID OUTPUT FOR BRIX CONTROL (BRIX AS PV FOR PID CONTROL)
 - 2 POTENTIAL-FREE RELAY OUTPUTS
- ➤ DISPLAY:
 - FOR PRODUCT CODE A15FDACFM1230: 7-SEGMENT LED DISPLAY
 - FOR PRODUCT CODE A24FDACFMEM1230: 7-SEGMENT LED DISPLAY AND LCD DISPLAY
- ENCLOSURE: FIELD MOUNTED MS POWDER COATED, INGRESS PROTECTION CLASS IP67
- > COMMUNICATION:
 - ➤ ETHERNET: MODBUS TCPIP (PRODUCT CODE: A24FDACFMEM1230)

FLUID DENSITY SENSOR TECHNICAL SPECIFICATIONS:

PRODUCT CODE: A24FDSRS1, A24FDSRS2, A24FDSRS3

- TYPE: MOTORIZED FLUID DENSITY SENSOR
- POWER SUPPLY: 24VDC FROM THE ANALYZER (NOT TO BE CONNECTED TO ANY EXTERNAL SOURCE).
- ➤ BUILT-IN THERMOWELL WITH RTD PT100
 - ➤ MATERIAL OF CONSTRUCTION: SS304 / SS316L
- PTFE SHEATHED CONDUCTIVITY PROBE 8 NOS.: SS304 / SS316L WITH PTFE SHEATH
 - ➤ MATERIAL OF CONSTRUCTION:
- ➤ MATERIAL OF CONSTRUCTION:
 - WETTED ROTARY PARTS: SS304 / SS316L
 - ➤ WETTED STATIONARY PARTS: MS CHROME PLATED / SS304 / SS316L
- FOR FOOD-GRADE, SS-304 FULL SENSOR BODY: ADD FGSS TO THE PC. EX: A24FDSRS3FGSS
- > FOR ACIDIC CHEMICALS, SS-316L FULL SENSOR BODY: ADD SSL TO THE PC. EX: A24FDSRS3SSL

FLUID DENSITY SENSOR MODEL GUIDANCE FOR VARIOUS APPLICATIONS:

A24FDSRS1: BATCH PAN, HORIZONTAL CONTINUOUS PAN, VERTICAL CONTINUOUS PAN A24FDSRS2: EVAPORATOR, FALLING FILM EVAPORATOR, JUICE AND SYRUP MIXING VESSEL

A24FDSRS3: SUGAR MELT, MOLASSES CONDITIONER, LIME BAUME

A24FDSRS3FGSS: BREWERIES, FOOD & BEVERAGES, DAIRY

A24FDSRS3FGSSL: CHEMICALS, DISTILLERY SLOPE / SPENTWASH

FOR MORE DETAILS ON THE FLUID-DENSITY-BRIX ANALYZER AND CONTROL SYSTEM WITH FLUID-DENSITY SENSOR DOWNLOAD THE BROCHURE FROM OUR WEBSITE.

 ${\tt PLEASE\ VISIT\ OUR\ WEBSITE\ \underline{www.yutechautomation.com}}.$

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