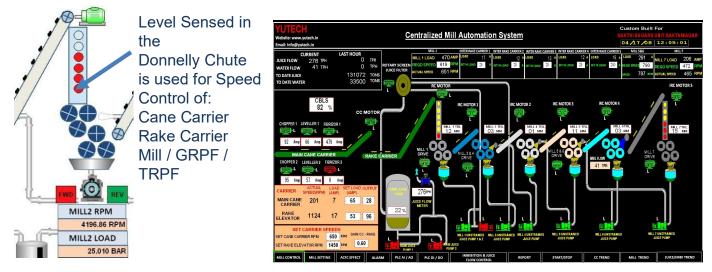
DONNELLY CHUTE LEVEL SENSING AND TRANSMISSION SYSTEM CAPACITIVE DONNELLY CHUTE SENSORS





YUTECH CAPACITIVE LEVEL SENSORS:

- YUTECH INVENTED THIS TECHNIQUE IN 1983
- ➢ HOWEVER, IT WAS DISCONTINUED IN 1984 AFTER THE INVENTION OF IR SENSORS AND WAS PRODUCED ONLY ON SPECIFIC DEMAND.
- IN 2015 ENTIRE PRODUCT RANGE WAS REDESIGNED TO MOVE TO MICRO-CONTROLLER BASED SOLUTIONS.
- ▶ IN 2017 CAPACITIVE SENSORS AND TRANSMITTERS WERE INTRODUCED.
- SENSOR DESIGN WAS CHANGED FOR BETTER CAPACITIVE LEVEL SENSING IN THE CHUTE.
- ALGORITHM TO REMOVE EARLIER DISADVANTAGES OF THIS TECHNOLOGY SUCH AS RAINING BAGASSE FLUCTUATIONS, AND FALSE READINGS DUE TO JUICE MIST WAS INTRODUCED TO MINIMIZE THIS EFFECT.
- YUTECH NOW REGULARLY PRODUCES BOTH CAPACITIVE AND CONDUCTIVITY AS WELL AS IR SENSORS.
- MOC: COPPER ALLOY AND VIRGIN PTFE.



MILL AUTOMATION SCREENSHOT

www.yutechautomation.com; www.yutech.in; sale@yutech.in

DONNELLY CHUTE LEVEL SENSING AND TRANSMISSION SYSTEM CAPACITIVE DONNELLY CHUTE SENSORS



CAPACITIVE SENSOR INSTALLATION ON SUGAR MILL DONNELLY CHUTE: SCHEMATIC DIAGRAM AND INSTALLATION PICTURE

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

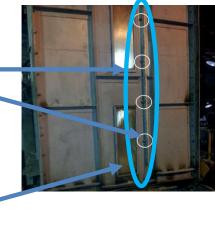
Proper Donnelly Chute

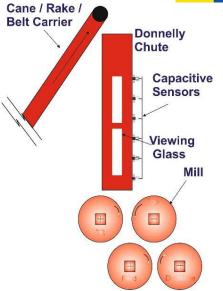
Level Sensing Results in

Maintained Fuel Feeding to Mills and avoids Stoppage due to Chute

Continuous and

overflow





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

TECHNICAL SPECIFICATIONS FOR DONNELLY CHUTE LEVEL SENSING AND TRANSMISSION SYSTEM :

- **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
- DISPLAY: 4 DIGIT LED DUAL DISPLAY, LED AS PER NUMBER OF LEVELS
- **SIGNAL OUTPUT:**
 - 4 20 MA PROCESSED MEASURED OR ANALYZED VARIABLE OUTPUT
 - > POTENTIAL-FREE RELAY OUTPUT FOR EACH SENSOR INPUT

PRODUCT CODES FOR DONNELLY CHUTE LEVEL SENSING AND TRANSMISSION SYSTEM OF VARIOUS SENSOR COMBINATIONS ARE GIVEN BELOW:

A15DCAACCS4C1R4FM (4 LEVEL SYSTEM) A15DCAACCS6C1R6FM (6 LEVEL SYSTEM) A15DCAACCS8C1R8FM (8 LEVEL SYSTEM) A15DCAACCS10C1R10FM (10 LEVEL SYSTEM) A15DCAACCS12C1R12FM (12 LEVEL SYSTEM) A15DCAACCS16C1R16FM (16 LEVEL SYSTEM)

PRODUCT CODES FOR INFRA-RED DONNELLY CHUTE / BAGASSE SILO LEVEL SENSOR: ASDCDCLS1210: FOR SUGAR MILL DONNELLY CHUTES

PLEASE VISIT OUR WEBSITE www.yutechautomation.com

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