

**30<sup>+</sup>** *Years of Excellence*



**“Creating VALUE for the Customers  
through Profitable Growth”**



**S I ENERGY VENTURES PVT. LTD.**  
(The Energy & Process Automation People)



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## Company Profile

**S.I. ENERGY VENTURES PVT. LTD.** was formed in 1992 with the mission to modernize the Process & Energy industries by installing integrated Automation Control Systems and help our customers achieve Stable Operation, Maximum Production and Minimum Cost.

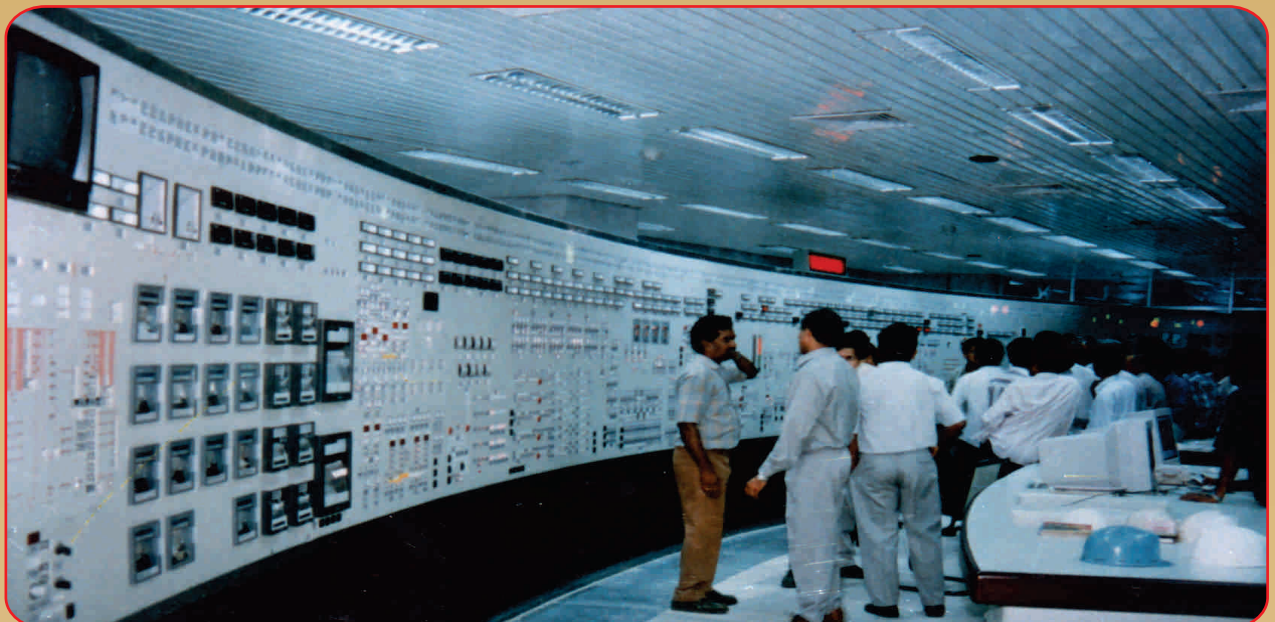
**S.I. ENERGY VENTURES PVT. LTD.** Is committed to the following **QUALITY POLICY**

- Contribute to the success of our **CUSTOMERS** by setting Industry Standard for Quality and Reliability through:
- Highly Rugged, Reliable, Latest Products and Integrated Control Systems.
- Responsive & value added services
- Expert counseling in Products and Control Systems
- High Expectations and Open Communications
- Creating **VALUE** for our **CUSTOMERS** through Profitable Growth.

We are capable of supplying single source turnkey Control & Automation/Instrumentation systems and services that require special design and engineering. Our main focuses are in the Energy, Sugar & Distilleries, Fertilizers, Oil & Gas, Chemical, and other Industries.

### Our Field Service Covers:

- Turnkey Execution (Design, Procurement, Supply Erection & Commissioning) of:
- Distributed Control Systems (DCS) & PLCs,
- Supervisory Control & Data Acquisition System (SCADA),
- VFDs & Soft Starters
- PCC, MCC, MDB etc.
- PRDS & De-superheating Station
- Control Valves
- Instrument Fitting
- Control Systems, Field Instrumentation, Cabling, Including Testing & re-calibration, of Instruments at site





## DONNELLY CHUTE LEVEL MEASUREMENT SYSTEM & INDICATION WITH CAPACITIVE NON CONTACT TYPE DONNELLY CHUTE LEVEL SENSORS

### Introduction

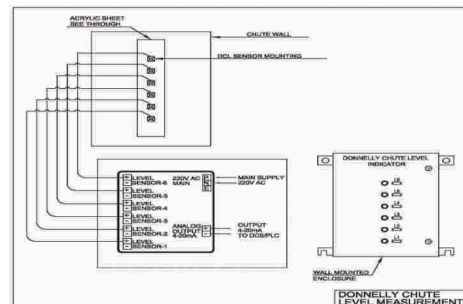
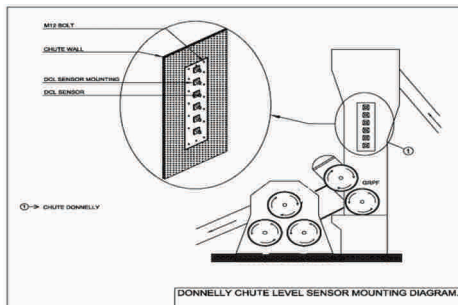
Capacitive sensors are used for the non-contact detection of any objects. In contrast to inductive sensors, which only detect metallic objects, capacitive sensors can also detect non-metallic materials. Typical applications are in the wood, paper, glass, plastic, food and chemical industries, Capacitive sensors for example monitor that the contents of a cardboard box are complete or check the presence of the non-metallic caps.

Latest and modern technology based Donnelly Chute Level Measurement Through Capacitive type sensor and solid state digital indication system specially design for measurement and display of Donnelly Chute Level. Capacitive Type Sensors shall be Mounted on side of Mill Donnelly Chute and Digital indicators are designed for Panel Mounting in industry environment. The digital indicator indicate the instantaneous value of Mill Donnelly Chute level (0-100%) are to be measured though Capacitive type Sensors. These Rugged and highly accurate sensors avoid the difficulties arising due to faulty signals raised by **Infrared / Conductivity / LDR / Normal Photo Sensors**. These sensors sense only genuine level through the raining Bagasse into Mill Donnelly Chute. Please read the instructions carefully before installing the system.

### Features

- Fast easy - to - use Teach mode Programming for sensing.
- No potentiometer adjustment or no conductivity (contact trouble).
- Long Term Stability
- High Accuracy
- Rugged encapsulated design for harsh environments
- Selectable 0 to 10V DC or 4-20mA output for DCS/PLC system

### CAPACITIVE TYPE DONNELLY CHUTE LEVEL SENSORS



## MILL TOP ROLLER LIFT MEASUREMENT & INDICATION WITH ULTRASONIC TYPE ROLLER LIFT SENSORS

### Introduction

Latest and modern technology based Mill Top Roller Lift Measurement Through Ultrasonic type sensor and solid state digital indication system specially design for measurement and display of Mill Top Roller Lift. Ultrasonic Sensors shall be Top Mounted on Mill Top Roller and Digital Indicators are designed for Panel mounting in industry environment. The digital indicator indicate the instantaneous value of Roller Lift (0-50mm) are to be measured through Ultrasonic type sensors and Transmitters. Please read the instructions carefully before installing the system.

### Features

- Fast easy - to - use Teach mode Programming for sensing.
- No potentiometer adjustment or no conductivity (contact trouble).
- Long Term Stability
- High Accuracy
- Rugged encapsulated design for harsh environments
- Selectable 0 to 10V DC or 2-20mA output for DCS/PLC system

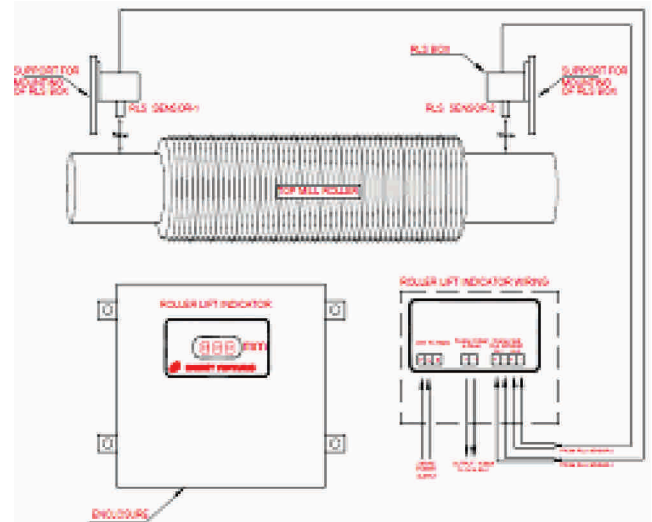
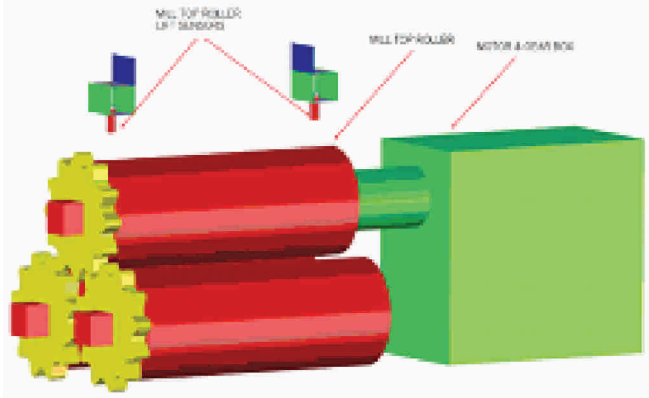




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## MILL TOP ROLLER LIFT SENSORS / TRANSMITTER



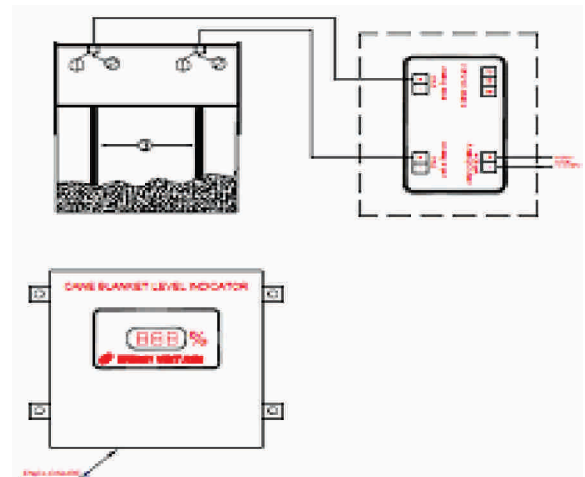
## CANE BLANKET LEVEL MEASUREMENT & INDICATION WITH ULTRASONIC TYPE CANE BLANKET LEVEL SENSORS

### Introduction

Latest and modern technology based Cane Blanket Level Measurement Through Ultrasonic type sensor and solid state digital indication system specially design for measurement and display of Cane Blanket Level. Ultrasonic Sensors shall be Top Mounted on Cane Carrier and Digital Indicators are designed for Panel mounting in industry environment. The digital indicator indicate the instantaneous value of Cane Blanket Level (0-100%) are to be measured through Ultrasonic type Sensors and Transmitters. Please read the instructions carefully before installing the system.

### Features

- Fast easy - to - use Teach mode Programming for sensing.
- No potentiometer adjustment or no conductivity (contact trouble).
- Long Term Stability
- High Accuracy
- Rugged encapsulated design for harsh environments
- Selectable 0 to 10V DC or 4-20mA output for DCS/PLC system



## ULTRASONIC TYPE CANE BLANKET LEVEL SENSORS



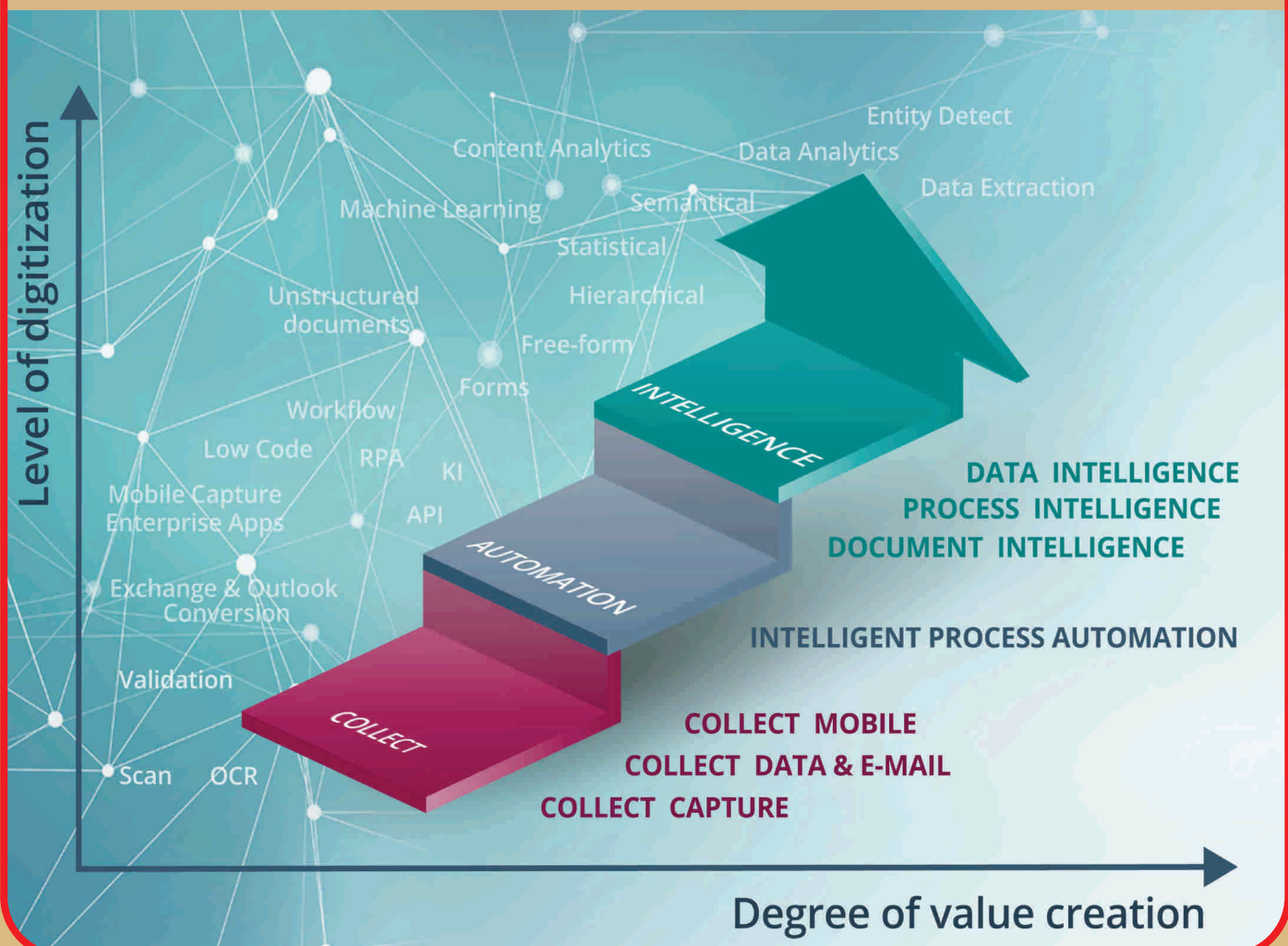
## Digitization

### Digitization Domain Expertise:

- Industry 4.0
- Data Analytics
- MES
- Industrial IoT.
- Cloud
- Industrial Networking

### Our Digital Manufacturing Solutions:

- Real Time Production Monitoring.
- Batch Reporting.
- Breakdown Capturing and OEE Monitoring.
- Cloud Based Live Reporting.
- Electronic Batch Recording (CFR 21 Part 11 Compliant Systems).
- Plant Efficiency Enhancement.
- Warehouse and Inventory Management.
- Industrial Network Integration



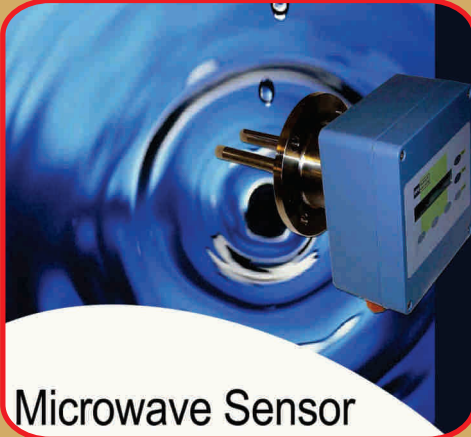


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## PROCESS INSTRUMENTS

ONLINE BRIX TRANSMITTER



Microwave Sensor

LOOP POWERD VIBRATION SENSOR



### Authorised Partner



**GOLD  
Recognised  
System Integrator**  
A ROCKWELL AUTOMATION PARTNER



**Allen-Bradley**

**ROCKWELL  
SOFTWARE**



**GOLD  
System Integrator**  
A ROCKWELL AUTOMATION PARTNER



**Endress+Hauser**  
People for Process Automation



**Hansford Sensors**  
Excellence in Vibration Monitoring

CONTROL VALVE



ISOLATION VALVES



DP TRANSMITTERS



FLOW METER



TEMPERATURE TRANSMITTER



PH/ CONDUCTIVITY TRANSMITTER  
WITH ANALYZER



TRANSMITTER FITTINGS



PRESSURE TRANSMITTERS



PRESSURE & TEMPERATURE GAUGES



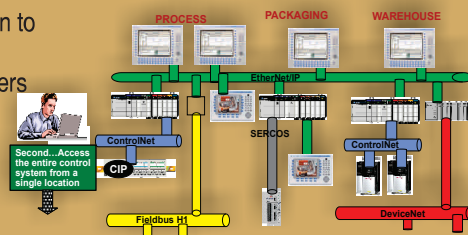
ULTRASONIC / RADAR  
DIAPHRAGM TYPE  
LEVEL TRANSMITTER





## Plant PAx - DCS FOR PROCESS CONTROL

- Distributed servers provide services and information to clients
- MMI Servers can take data from multiple data servers
- Clients can see data from multiple servers
- Tags, alarms, graphics, etc. from any server can be displayed on any client
- EWS & OWS With Software



## CONTROL LOGIX

- Designed to service a broad range of applications
- With a focus on scalability, ease-of-use and lowest cost of ownership
- Based on open Industry Standards
- To help customers provide Quality products faster, at a lower cost
- 1,28,000 Digital or 4000 Analog I/O max
- Hot Backup Configuration with Media Redundancy.
- RS-232, DH-485, DH+, Ethernet, Control Net, Device Net, RIO.

## COMPACT LOGIX

- Expandable up to 1024 I/O
- Backup Configuration with Media Redundancy.
- RS-232, Ethernet, DH-485, Control Net, Device Net.
- Memory : 512 kb & 1.5 MB, Aux. Supply 24 VDC/240 VAC

## MICROLOGIX ML 1000/1100/1200/1400/1500 MICRO 800/830/850

- Large Range of I/O (10-512 I/O) & Analog I/O are available
- RS-232, Standard Communications, DH-485, Device Net, Ether Net, Modbus RTU (Master/Slave), ASCII Communication.
- Memory : 1k to 14 K words, Aux. Supply : 24 VDC/240 VAC

## AC DRIVES (VFDS)

- 12-40 I/O, 4 Soft I/P Controlled by the Keypad, 2 Analog I/P, O/P Relay Type Modular Controller
- PF- 4/40/400/70/700/700H/S 0.25 HP - 900 HP
- Application : HVAC, Conveyor, Rolling Mills, Packaging Equipments, Elevator, Extruders, Compressor.
- Customized drives available for various applications.

## PANEL VIEW PLUS MICRO & KEYPAD

- Monochrome Transflective LCD with Integral LED backlight
- Function Keys and Cursor Keys Ether Net
- RS-232 (Df1 & DH-485 Protocol) Communication options
- Operating Temp : 0-55°C (32-131°F)

## SOFTWARE

- FT View SE  
Our HMI offering for single station or distributed-server multi-client applications supporting our View Any Ware strategy

## VIBRATION MONITORING

- RS Logix 5000, RS Logix 500  
Our Engineering Programming Software with Following Languages  
(i) FBD-Functional Block Diagram, (ii) Ladder Logic  
(iii) SFC-Sequential Flow Chart, (iv) ST-Structure Text

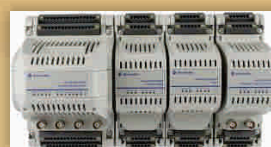
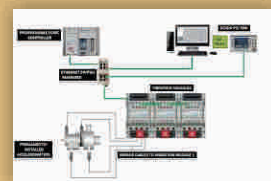
## CONDITION MONITORING

No.	Monitoring Parameter	No.	Monitoring Parameter
1	Shaft Vibration	6	Case Expansion
2	Axial Position	7	Rotating/Zero Speed
3	Eccentricity p-p	8	Phase Marker
4	Differential Expansion	9	Valve Position
5	Bearing Vibration	10	Bearing Temperature

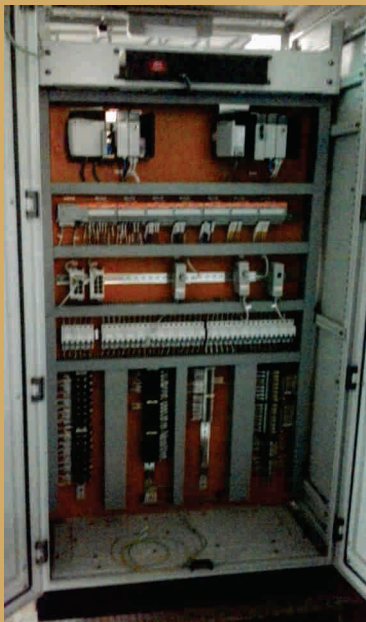
Designed for fast response to changes in the machines condition.

Are able to  
- Shutdown machine  
- Send alarm signal to DCS

Varying levels of  
- Analysis  
- Condition Assessment  
- Display Capability



## Panels



## PRODUCTS

- DCS
- PLC
- SCADA/MMI/HMI
- Networking
- Instrumentation
- Panels
- AC Drives (VFD)
- Vibration Monitoring
- Motion Control
- Field Instruments  
(Level, Pressure, Flow, Temperature, PH)
- Control Valves
- Mill Donnelly Chute Level  
& Mill Top Roller Lift  
Sensor & Transmitter
- L. P. U. (Mol) Systems

## APPLICATION

- Complete Sugar Plant
- Complete Power Plant IPP, CPP
- Process Controls
- Batch Controls
- Automatic Starting,  
Synchronizing and Load  
Sharing of Power Generators.
- Supervisory Control Systems
- Power & Energy Monitoring Systems
- Load Management System
- Machine Automation
- Condition Monitoring
- Injection Molding Machines
- Batching Automation

## INDUSTRIES

- Energy
- Sugar
- Fertilizer
- Paper
- Water & Waist Water Treatment
- Effluent Treatment
- Oil and Gas
- Chemicals
- Distillery
- RTPM & Vetgoods
- Monitoring System
- FMCG
- EMS System
- Online Loss Capturing
- OT / IoT / OEE



# S I ENERGY VENTURES PVT. LTD.

**(The Energy & Process Automation People)**

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