

Industrial Automation Systems & Solutions

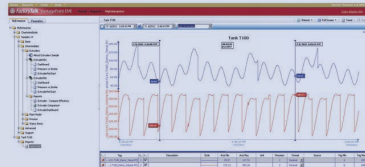


TOTAL SOLUTIONS.....
SIMPLIFIED, OPTIMISED, CUSTOMISED & DELIVERED



GRAVITECH
....Simplifying Complexity

Industrial Automation Systems

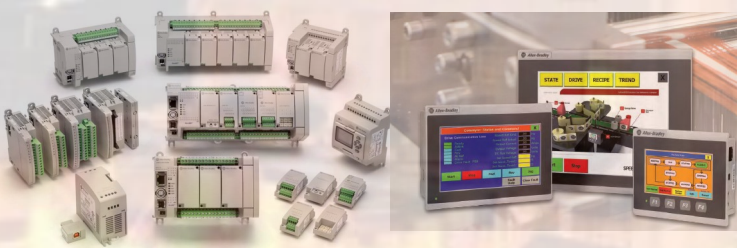


PLC & SCADA SYSTEMS

- ◇ Simplex / Redundant CPU Systems
- ◇ High Speed Communication Network
- ◇ Up to 128,000 I/O's
- ◇ Distributed Input / Outputs
- ◇ Easy Line Integration
- ◇ Tag based Architecture
- ◇ Advanced Programming Languages
- ◇ Automatic Device Configuration
- ◇ Interactive HMI systems
- ◇ Reporting & Historian Data Collection

CONTROL PANELS

- ◇ Marshalling Racks
- ◇ Wall mounted Panels
- ◇ Mild Steel / Stainless Steel Panels (NEMA4X)
- ◇ MCC Panels
- ◇ Intelligent MCC Panels
- ◇ Panels for Hazardous Areas
- ◇ International Standards with Quality Components



FACTORY AUTOMATION

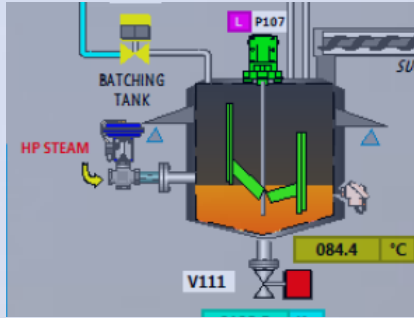
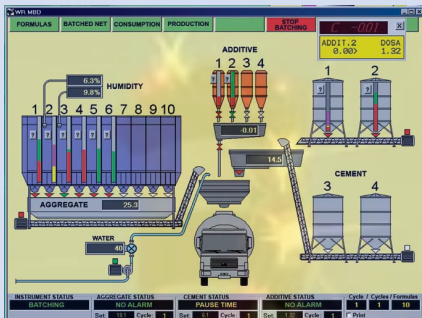
- ◇ Micro PLC suitable for Small applications
- ◇ Compact HMI with Data logging
- ◇ Easy programming with Workbench
- ◇ Ethernet / Serial Communications
- ◇ Sensors

POWER CONTROLS

- ◇ AC Drives for Low / Medium / High Voltages
- ◇ Soft Starters / Circuit Breakers
- ◇ Energy Monitoring with Communications
- ◇ Switch Gears



BATCHING & BLENDING



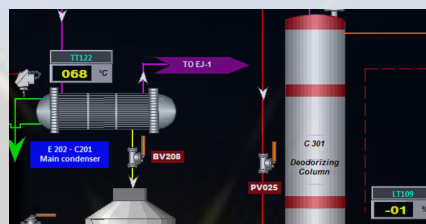
- ◇ Soaps & Detergents
- ◇ Chocolate & Confectionery
- ◇ Snacks & Biscuits
- ◇ Blending Systems
- ◇ Recipe Management
- ◇ Customised Reporting

LINE-1 BATCH RECORDS

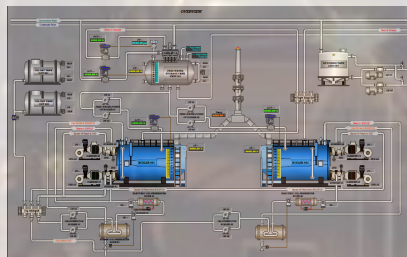
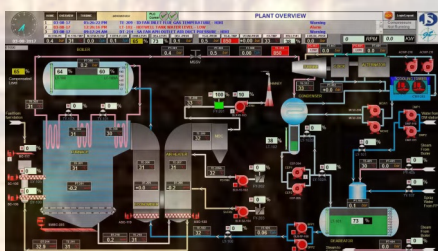
Batch_No	Recipe_Name	Date	LogTime	BStart_Time	BEnd_Time	Batch_Time	Soda	Calcite	C_Clay	LABSA	Colour	Water	Mixing_Time1	Al_Sulphate	STPP	Dolomite
11	Rin (2.8-Ton)	2016-10-25	11:56:54	11:34:43	11:56:23	00:21:32	346.04	433.87	223.48	436.79	15.37	43.97	180	84	168	929.84
12	Rin (2.8-Ton)	2016-10-25	12:22:23	12:00:58	12:21:53	00:20:47	346.54	435.13	224.36	436.51	15.33	43.17	240	84	168	929.09
13	Rin (2.8-Ton)	2016-10-25	12:55:13	12:32:25	12:54:42	00:22:09	346.04	435.26	225.87	436.79	15.24	43.24	240	84	168	930.09

CONTINUOUS PROCESS CONTROL

- ◇ Milk Pasteurisers
- ◇ Automated CIP Systems
- ◇ Distillation Columns
- ◇ Chemical Plants
- ◇ Heat Exchangers
- ◇ Historian Data Logging



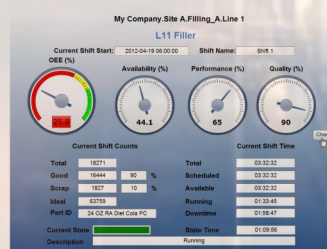
BOILER & POWER PLANTS



- ◇ Drum Level Controls
- ◇ Combustion Controls
- ◇ Turbine System
- ◇ Air & Flue Gas
- ◇ De-Aerator & Feed Water

OEE & SPECIAL APPLICATIONS

- ◇ OEE Monitoring & Reporting
- ◇ Machine Breakdown Analysis
- ◇ Real Time E-mail & SMS notifications
- ◇ Shop floor Displays
- ◇ Wireless Communications



Process Weighing Systems

- ◇ Tank Weighing Systems
- ◇ Silo / Hopper Weighing Systems
- ◇ Reactor Weighing System
- ◇ Process Platform Scales
- ◇ Weighbridge Automation
- ◇ Tank Farm Automation
- ◇ Check Weighers
- ◇ Crane Weighing
- ◇ Special Applications



PROFI
NET

CC-Link

EtherCAT

EtherNet/IP

MODBUS/TCP

CANopen

Modbus

PROFI
BUS

ETHERNET
TCP/IP

DeviceNet



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