

Smart Plant Model



Light & Easy



*Control
Application*



Energy Monitoring



*Combination traditional &
High Technology*



1,370 mm.



1,000 mm.

1,000 mm.

What is Smart Plant Model?

Smart Plant Model is simulation process plant for apply study in process control such as flow control, pressure control, Level control and complex loop control.



Mission:

“In this Smart Plant model and its textbook education help learners to enhance their understanding about the real world of control engineering and instrumentation. To inspire them become the practical people who can integrate his/her strong background of theory and practice together as well as enhance the creativity by his/her left and right brain in order to innovate new generation of industrial world”



Simple:

- 1) Field Instrument: HART
Plant :EJA430A (PT), RCCT30 (FT),EJX110A (LT)
- 2) Controller: YS1700 or UT55A (Single Loop, Digital indicating controller)
- 3) Size: 1370 mm x 1000 mm
- 4) LAB Sheet : Flow, Pressure, Level Control, Parameter setting and PID Tuning



Hybrid :

- 1) HART: EJA430A (PT), RCCT30 (FT), EJX110A (LT); FF & Wireless: YTA510 (TT), EJX530A(PT), AXF015(FT), EJX110A(LT), Gateway
- 2) Controller: FAM3/STARDOM & FASTTOOLS (PLC –SCADA)
- 3) Size: 1370 mm x 2000 mm
- 4) LAB Sheet: Flow, Pressure, Level Control, Cascade , ratio control and PUMP & Sequence Control



Premium:

- 1) Field Instrument:
HART: EJA430A (PT), RCCT30 (FT),
EJX110A (LT) ; FF & Wireless: YTA510
(TT), EJX530A(PT), AXF015(FT),
EJX110A(LT), Gateway
- 2) Controller: CENTUM VP (DCS)
- 3) Size: 1370 mm x 2000 mm
- 4) LAB Sheet: Continuous Control,
Field Maintenance Kits (PRM,
FieldMate), Customize plant by
requirement



Feature:

Modularized design oriented and safety for operation Easy to calibrate and maintenance with HART, Foundation Fieldbus and Wireless ISA100

Systematic training media, in-depth coverage basic principles and advanced application fully coverage of:

- 1) Continuous process
- 2) Self-regulation, non self-regulation and Interacting process characteristic
- 3) Flow, Level, Pressure process control
- 4) PID Control, Ratio control, Cascade control and Override Control
- 5) Feed Forward Control and PID with Decoupling Function
- 6) Sequencing, Interlocking and Tracking function
- 7) Field instrument parameter setup and maintenance



Smart Plant Model

Using For:

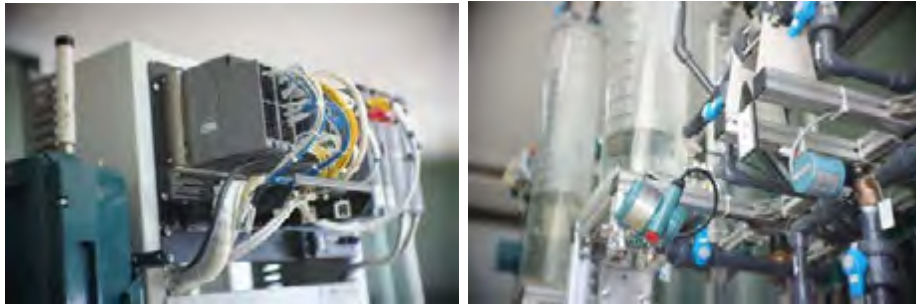
- Improve understanding of general plant theory and concepts
- Increase knowledge of process control
- Gain Operating and maintenance experience, confidence, check fault diagnosis and corrective actions in case of process equipment malfunction.
- Increase operator awareness, skills and safety



Reference Plant Model :

Experience over hundred plant model in reference education institute as

- ✓ Chulalongkorn University,
- ✓ Map Ta Phut Technical College,
- ✓ Hatyai Technical College,
- ✓ Rajamangala University of Technology Rattanakosin,
- ✓ King Mongkut's University of Technology North Bangkok.
- ✓ Prince of Songkla University
- ✓ Burapha University
- ✓ Etc.



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