

Smart SIS Experience



- Leverage digital intelligence
- Certified reliability
- Proactively manage your assets
- Enable easy compliance

Introduction

PlantWeb is the proven digital plant architecture that uses the power of predictive intelligence to improve plant performance. To help make your operation safer and more productive, Emerson has extended the proven innovations of our PlantWeb digital architecture to safety instrumented systems (SIS). The resulting smart SIS provides an integrated approach to the entire safety instrumented function (SIF) – from sensor, through logic solver, to final control element - as a complete entity. The use of digital intelligence and predictive diagnostics increases system availability while reducing life cycle costs and enabling easy regulatory compliance.

Benefits

- **Leverage digital intelligence.** Today's field intelligence offers a new wealth of information, — including intelligent field devices, predictive diagnostics, and digital communications — that enable you to predict and prevent problems before they affect the process. As a smart solution, DeltaV™ SIS continuously monitors the health of the entire safety instrumented function and its ability to perform on demand. Faults can be diagnosed before they cause spurious trips which increases process availability and reduce lifecycle costs.
- **Certified reliability.** DeltaV SIS is third-party certified by TUV for SIL3-rated safety applications to give you added confidence in our system's proven performance. The system's modular, scalable and redundant functionality makes it perfect for applications of any size, anywhere. The dedicated safety communication network ensures optimal performance.
- **Proactively manage your assets.** AMS™ Suite: Intelligent Device Manager software documents and archives instrument configurations and changes, as well as health information and alarms.
- **Enable easy IEC61511 compliance:** Emerson technology and expertise built into our Smart SIS make it easier ever for you to meet safety requirements throughout the system life cycle. Designed-in advantages include:
 1. TUV certified safety function blocks that simplify safety-logic development
 2. Non-intrusive simulation for comprehensive testing of safety logic before deployment
 3. Easy-to-use engineering tools and operator interface for both the safety and control systems
 4. Synchronized BPCS and SIS time/event collecting
 5. Intelligent alarm management
 6. Automated performance monitoring, testing, and documentation

Product Description

The Smart SIS Experience offers a small, simplified, and competitively priced offering composed of a DeltaV SIS system of up to 100 DSTs and AMS Suite: Intelligent Device Manager of up to 75 DTs. **Each Smart SIS Experience system is a complete safety instrumented system, with TUV certified safety function blocks and integrated change management to ease regulatory compliance.** Specifically, the figure below illustrates the software license contents that are included with the Smart SIS Experience system:



Smart SIS Experience

Software included in the Smart SIS Experience Bundle:

- Configuration Database
- Control Studio (incl. on-line)
- 250 Point Historian
- DeltaV Operate
- Diagnostics
- Event Chronicle
- Embedded APC: Fuzzy, 1x1 MPC Blocks
- 250 Points OPC
- 100 DSTs (any combination I/O)
- Database extension for DeltaV SIS
- 75 DT AMS Suite: Intelligent Device Manager
- AMS Audit Trail
- 1 Year Foundation Support

All hardware is sold separately.

Ordering Information

Description	Model Number
Smart SIS Experience License Pack (for pre-v12.3 systems)	VS8105
Smart SIS Experience License Pack (v12.3 or newer systems)	VS8106
DeltaV SIS and AMS Device Manager Media Pack	VE2301RxxxLyy (“xxx” defines version and language)

Prerequisites

- Appropriate DeltaV hardware

To locate a sales office near you, visit our website at:

www.EmersonProcess.com/DeltaV

Or call us at:

Asia Pacific: 65.6777.8211

Europe, Middle East: 41.41.768.6111

North America, Latin America: +1 800.833.8314 or
+1 512.832.3774

For large power, water, and wastewater applications

contact Power and Water Solutions at:

www.EmersonProcess-powerwater.com

Or call us at:

Asia Pacific: 65.6777.8211

Europe, Middle East, Africa: 48.22.630.2443

North America, Latin America: +1 412.963.4000

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