DeltaV™ Flex System

- Packaged solution leveraging the PK Flex Controller
- Lower upfront cost for DCS applications
- Easily add more functionality at your own pace
- Access to the latest DeltaV™ innovations

Introduction

DeltaV™ Flex System (Flex System) is a full-featured DeltaV DCS system combining term-based software licensing, product support, and extended hardware warranty in a packaged solution that is attractive for all system sizes. The Flex System lowers the initial cost, accelerating the return on your investments, while providing immediate access to the latest DeltaV DCS innovations.

Benefits

Packaged Solution that Leverages PK Flex Controller. Provides DeltaV Functionality starting with an easy-to-order base software package in five different sizes (50, 100, 250, 500, and 1500 Flex DSTs) that can be grown up to 30,000 Flex DSTs, offering a great solution that utilizes the scalability of the PK Flex Controller.

Lower Upfront Cost for All Applications. By combining software licensing and support in a subscription-based software package, Flex System lowers the initial investment required to deploy a DCS system.

As an example, the Flex System can be a particularly attractive solution for Original Equipment Manufacturers (OEMs) that want to provide a DeltaV system for a process skid or lab environment while minimizing initial capital investment.

Add More Functionality at Your Own Pace. Flex System packages allow you to start with a simple application, and then increase capacity and functionality at your own pace by adding DeltaV term-based licenses or hardware to meet the technical requirements of your application. The extra functionality can be added at any time to your system.

Access the Latest DeltaV Innovation. Flex System uses the same DeltaV software as traditional DeltaV systems. This ensures you stay current with the latest innovations while maintaining a consistent experience and ease of use across DeltaV systems.

Product Description

Flex System consists of a base software package that is subscription based and composed of Flex DSTs, ProPLUS Premium license, OPC UA activation license, licenses for 32 Physical Ethernet devices, product support and extended hardware warranty for DeltaV Control and I/O associated with Flex System. The Flex System software package has been designed for use with PK Flex Controller hardware and a ProPLUS workstation or Industrial PC (sold separately).

How DeltaV Flex System Licensing Works

Flex System subscription-based licensing provides flexibility in the length of the term (license terms lengths of 1-, 3- and 5-years are available), with easy ordering using the base package size options. Additional functionality can be added to Flex System by purchasing add-on DeltaV components as shown on page 3 of this document.

Key Points

- The DeltaV Flex System is a fully functional DeltaV system that utilizes term-based software licensing. All DeltaV software that is licensed in association with Flex System must be licensed on a subscription basis.
- There are five options for the base package: 50 Flex DST, 100 Flex DST, 250 Flex DST, 500 Flex DST, or 1500 Flex DST; all include a ProfessionalPLUS license.
- Product support is included for all software that is licensed on a subscription basis.
- DeltaV Extended Hardware Warranty service is included for all Emerson Process Systems and Solutions DeltaV DCS and DeltaV SIS™ products that are part of the DeltaV Flex System. For more information on what is included in the service, please refer to **Extended Hardware Warranty** service data sheet.
- Expand the Flex System's capacity to support up to 30,000 Flex DSTs.
- Flex DSTs: Traditionally, DST counting requires knowledge of the I/O type (AI, AO, DI and DO types) that will be configured to determine the DST license. With Flex DSTs, there is no need to know the I/O type: only the amount of I/O. This simplifies the engineering and planning of the project capacity.
- All hardware and add-on DeltaV components are sold separately.
- There are no limitations on the number of PK Flex Controllers, I/O cards, workstations, or other software licenses that can be added to the Flex System compared to a traditional DeltaV system.
- Flex System includes a license to DeltaV ProfessionalPLUS Premium Workstation Software Suite. This provides DeltaV Live graphics configuration (engineering) functionality for the entire system and DeltaV Live Operations Premium (runtime) functionality for the ProfessionalPLUS node. The DeltaV Live Operations Premium Performance Pack license can be added to additional workstations to enable DeltaV Live Operations Premium (runtime) functionality on those workstations.
- When implementing an SIS or EIOC solution, a PK Flex Controller needs to be ordered and used in combination with an SZ Controller or EIOC.

Software Base Package*

DeltaV License

- PK Flex Controller Software
  - 50, 100, 250, 500, and 1500 Flex DSTs
  - 32 Physical Device license (PDTs)
- ProPLUS Premium
- OPC UA Activation license

Support (included)

- Product Support (formerly Guardian Support)
- Extended Hardware Warranty for all DeltaV Control and I/O

Required Hardware (sold separately)

- PK Flex Controller (Simplex or Redundant)
- DeltaV-approved workstation or industrial PC for ProPLUS

*A physical LDK USB dongle should be ordered with the Software Base Package.

Add-on DeltaV Components

Hardware

- Operator stations
- Applications stations
- Smart Switches
- EIOC Cards
- Traditional I/O
- CHARMS I/O
- Wireless I/O
- CSLS I/O
- SZ Controller

Subscription-Based Software Licenses

- Flex DSTs (to a max of 30,000 DSTs)
- ProPLUS Scaleup licenses (to a max of 30,000 DSTs)
- Controller Redundancy license for PK Flex Controller software
- Protocol licenses for PK Flex Controller software (Modbus TCP, EtherNet/IP, OPC UA server, PROFINET)
- Physical Device license (PDTs) for PK Flex Controller software
- EIOC with OPC UA Client Protocol license, PDTs, and DSTs
- OPC UA client tag license for ProPLUS and Application Station
- Advanced Unit Management license
- Basic Batch, Advanced Batch, or Professional Batch license
- VCAT license
- Operator Station licenses
- Application Station licenses
- Alarm Help license
- Live Operations Premium Performance Package license
- DeltaV Continuous Historian license
- Professional Station
- Engineering Seat
- Control Studio On-Line
- DeltaV SIS Configuration
- Base Workstation
- Event Chronicle
- DeltaV InSight
- DeltaV Predict/PredictPro
- DeltaV Neural
- DeltaV Adapt
- DeltaV Alarm Mosaic

Software Base Package Ordering Information

Description	Model Number
DeltaV Flex System base package subscription; xxxx Flex DSTs	DVFLEXSwBPSxxxx_YyFYzz

The DeltaV Flex System base package subscription does not include DeltaV software version installation media. The DeltaV installation software must be ordered separately using the VE2301... model number for the DeltaV software version needed (v16.LTS or newer for new systems).

These model numbers are for initial subscriptions only; model numbers for renewals are listed separately in the price book.

*w represents the length of the subscription term in years (1, 3, or 5).

*xxxx represents the capacity of the license (050 for 50 Flex DSTs, 100 for 100 Flex DSTs, 250 for 250 Flex DSTs, 500 for 500 Flex DSTs, or 1500 for 1500 Flex DSTs).

*y represents the specific year of the subscription term (1, 2, 3, 4, or 5).

*zz represents a two-digit indicator of the year of purchase (e.g. 26).

Ordering Information for a Physical LDK Dongle for use with DeltaV Flex System

Description	Model Number
DeltaV Flex System LDK Dongle	DVFLEX2121LDK

Ordering Information for PK Flex Controller HW for use with DeltaV Flex System

Description	Model Number
Simplex PK Flex Controller assembly for use with DeltaV Flex System software licensing (includes 1 PK Flex Controller, 1 Carrier, 2 IOPs, 1 Power Module, 1 PK Controller Protection Cover, and 1 Power Module Protection Cover)	DVFLEXPKS
Redundant PK Flex Controller assembly for use with DeltaV Flex System software licensing (includes 2 PK Flex Controllers, 1 Carrier, 2 IOPs, and 2 Power Modules)	DVFLEXPKR

Please refer to the **Extended Hardware Warranty** Service Data Sheet for more information on hardware warranty and spare parts.

Ordering Information for Add-On DeltaV Components for use with DeltaV Flex System

Description	Model Number
PK Flex Controller Redundancy subscription for use with DeltaV Flex System	DVFLEXREDSwS01_YyFYzz
Flex DST and ProfessionalPLUS Premium DST Scaleup subscription for use with DeltaV Flex System; includes xxxx Flex DSTs and xxxx ProfessionalPLUS Premium DSTs	DVFLEXDSTSwSxxxx_YyFYzz
Flex Ethernet connected I/O subscription license for use with PK Flex in DeltaV Flex System; xxx physical devices	DVFLEXPPDTSwSxxx_YyFYzz
PK Flex MODBUS TCP Server Interface subscription for use with DeltaV Flex System	DVFLEX4110SwS01_YyFYzz
PK Flex Controller OPC UA Server Interface Subscription for use with DeltaV Flex System	DVFLEX4111SwS01_YyFYzz
PK Flex MODBUS TCP Client Interface subscription for use with DeltaV Flex System	DVFLEX4101SwS01_YyFYzz
PK Flex EtherNet/IP Interface subscription for use with DeltaV Flex System	DVFLEX4100SwS01_YyFYzz
PK Flex PROFINET Interface subscription for use with DeltaV Flex System	DVFLEX4108SwS01_YyFYzz
OPC UA Client Signal license subscription for use with DeltaV Flex System	DVFLEX2204SwSxxx_YyFYzz
OPC Data Access Server subscription for use with DeltaV Flex System, 250 Data Values[1]	DVFLEX2223SwS01_YyFzz
OPC Historical Data Access Server Subscription for use with DeltaV Flex System	DVFLEX2227SwS01_YyFYzz
OPC Alarms and Events Server Subscription for use with DeltaV Flex System	DVFLEX2228SwS01_YyFYzz
PI OPC DA/HDA Server Software subscription for use with DeltaV Flex System	DVFLEX2222SwS01_YyFYzz
Advanced Unit Management base license subscription for use with DeltaV Flex System	DVFLEX3122SwSxxx_YyFYzz

Ordering Information for Add-On DeltaV Components for use with DeltaV Flex System

Description	Model Number
Basic Batch base license subscription for use with DeltaV Flex System	DVFLEX2247SwSxxx_YyFYzz
Advanced Batch base license subscription for use with DeltaV Flex System	DVFLEX2248SwSxxx_YyFYzz
Professional Batch base license subscription for use with DeltaV Flex System	DVFLEX2249SwSxxx_YyFYzz
Redundant Batch Executive subscription for use with DeltaV Flex System	DVFLEXREDBESwS01_YyFYzz
Configuration Audit Trail base license subscription for use with DeltaV Flex System	DVFLEXCASwSxxxxx_YyFYzz
Operator Station, full span of control, for use with DeltaV Flex System	DVFLEX2104SwS01_YyFYzz
Operator Station, View-Only subscription for use with DeltaV Flex System	DVFLEX2110SwS01_YyFYzz
DeltaV Live Operations Premium Performance Pack subscription for use with DeltaV Flex System	DVFLEX2104PSwS01_YyFYzz
Quad-Monitor Workstation License Subscription for use with DeltaV Flex System	DVFLEX2104KSwS01_YyFYzz
Application Station base license subscription for use with DeltaV Flex System	DVFLEXAPSwSxxxxx_YyFYzz
DeltaV Continuous Historian subscription for use with DeltaV Flex System	DVFLEX22SwSxxx_YyFYzz
DeltaV Continuous Historian on non-application station subscription for use with DeltaV Flex System	DVFLEXP42SwSOPx_YyFYzz
DeltaV Continuous Historian Elite Scaleup subscription for use with DeltaV Flex System	DVFLEX22SwUPSxxx_YyFYzz
Advanced Continuous Historian Scaleup subscription for use with DeltaV Flex System	DVFLEX22SwUPSxxx_YyFYzz
Enterprise Historian Configuration Interface subscription for use with DeltaV Flex System	DVFLEX2221SwS01_YyFYzz
DeltaV Alarm Help subscription for use with DeltaV Flex System	DVFLEX2149SwSxx_YyFYzz
Professional Station, Full Span of Control, subscription for use with DeltaV Flex System	DVFLEX2102SwS01_YyFYzz
Engineering Seat subscription for use with DeltaV Flex System	DVFLEX2165SwS01_YyFYzz
Control Studio On-Line subscription for use with DeltaV Flex System	DVFLEX2161SwS01_YyFYzz
DeltaV SIS™ Configuration Software License subscription for use with DeltaV Flex System	DVFLEX1508SwS01_YyFYzz
Base Workstation Software subscription for use with DeltaV Flex System	DVFLEX2106SwS01_YyFYzz
Maintenance Workstation Software subscription for use with DeltaV Flex System	DVFLEX2105SwS01_YyFYzz
Event Chronicle subscription for use with DeltaV Flex System	DVFLEX2143SwS01_YyFYzz
Excel Add-in subscription for use with DeltaV Flex System[1]	DVFLEX2141SwS01_YyFYzz
DeltaV InSight base license subscription for use with DeltaV Flex System	DVFLEX914SwSxxxx_YyFYzz
DeltaV InSight Basic Subscription for use with DeltaV Flex System	DVFLEX2134SwS01_YyFYzz
DeltaV Predict/PredictPro subscription for use with DeltaV Flex System	DVFLEX3152SwSxxx_YyFYzz
DeltaV Neural subscription for use with DeltaV Flex System	DVFLEX3153SwS01_YyFYzz
DeltaV Adapt subscription for use with DeltaV Flex System	DVFLEX3155SwSxxx_YyFYzz

Ordering Information for Add-On DeltaV Components for use with DeltaV Flex System

Description	Model Number
DeltaV Alarm Mosaic subscription for use with DeltaV Flex System	DVFLEX2135SwS01_YyFYzz
EIOC, SZ Controller, and CSLS DST base license subscription for use with DeltaV Flex System; 25 DSTs and 25 ProfessionalPLUS Premium DSTs	DVFLEXEIOCSwS025_YyFYzz
SZ Controller Redundancy subscription for use with DeltaV Flex System	DVFLEXREDSZSwS01_YyFYzz
OPC UA Client Interface subscription for use with EIOC in DeltaV Flex System	DVFLEX4106SwS01_YyFYzz
IEC 61850 Interface subscription for use with EIOC in DeltaV Flex System	DVFLEX4107SwS01_YyFYzz
Ethernet Connected I/O subscription license for use with EIOC in DeltaV Flex System	DVFLEXEPDTSwSxxx_YyFYzz
Simplex Ethernet I/O Card (EIOC) assembly for use with DeltaV Flex System (Includes EIOC, Dual Universal Carrier, Universal Carrier Protection Cover, 2 Ethernet Isolation Ports for Twisted Copper, 2 Power Plugs)	DVFLEXEIOCS
Redundant Ethernet I/O Card (EIOC) assembly for use with DeltaV Flex System (Includes 2 EIOCs, Dual Universal Carrier, 2 Ethernet Isolation Ports for Twisted Copper, 2 Power Plugs)	DVFLEXEIOCR

These model numbers are for initial subscriptions only and some scale-up licenses; Additional model numbers for license capacity scale ups are available.

For additional ordering information for scale-up license and renewals, please contact your local Emerson representative.

Limited to one DVFLEXEIOCS or one DVFLEXEIOCR per DeltaV Flex System.

[1]OPC Data Access Server subscription license only applies to the ProfessionalPLUS station. OPC Data Access Server & DeltaV Excel Add-In cannot run simultaneously on ProPLUS.

*w represents the length of the subscription term in years (1, 3, or 5).

*x represents the capacity of the DeltaV Continuous Historian for Non-Application Station license (1 for up to 1250 Parameters, 2 for going from 1250 to 2250 Parameters, or 3 for going from 2250 to 3250 Parameters).

*xx refers to 01, 05, 10, and 25 station licenses for DeltaV Alarm Help.

*xxx -for PDTs, represents the capacity of the Ethernet Connected I/O Physical Device license (001 for 1 Physical Device, 010 for 10 Physical Devices, 050 for 50 Physical Devices, 100 for 100 Physical Devices, and 500 for 500 Physical Devices).

-for OPC UA Client Signal licenses, refers to 100 and 500 signals.

-for Advanced Unit management, refers to 002, 005, 010, 020, 030, 050, 075, and 100 Unit licenses.

-for Basic Batch, refers to 002, 005, 010, 020, 030, 050, 075, and 100 Unit licenses.

-for Advanced Batch, refers to 002, 005, 010, 020, 030, 050, 075, and 100 Unit licenses.

-for Professional Batch, refers to 002, 005, 010, 020, 030, 050, 075, and 100 Unit licenses.

-for DeltaV Continuous Historian parameter license, 090 refers to 250, 042 refers to 1000, 043 refers to 5000, and 044 refers to 10000 parameters.

-for DeltaV Continuous Historian Elite parameter license, 083 refers to 250, 084 refers to 1000, 085 refers to 5000, 086 refers to 10000, and 087 refers to 20000 parameters.

-for Advanced Continuous Historian parameter license, 078 refers to 250, 079 refers to 1000, 080 refers to 5000, 081 refers to 10000, and 082 refers to 20000 parameters.

-for Predict/PredictPro 002 for 2 MPC Outputs, 005 for 5 MPC Outputs, 010 for 10 MPC Outputs, 020 for 20 MPC Outputs.

-for Adapt 001 for 1 Adapt Function Block, 010 for 10 Adapt Function Blocks, and 100 for 100 Adapt Function Blocks.

*xxxx -for Flex DST Scaleup licenses, refers to 050 for 50 Flex DSTs, 100 for 100 Flex DSTs, 500 for 500 Flex DSTs, and 1500 for 1500 Flex DSTs.

-for DeltaV Insight, refers to up to 0100, 0250, 0500, 1000, 2000, and 3000 Analog Outputs.

*xxxxx -for Configuration Audit trail, refers to 00050, 00100, 00250, 00500, 01000, 02000, 03000, 04000, 05000. 10000, and 30000 size. Remember that license needs to match your system size.

-for Application Stations, refers to 00250, 00500, 01000, 02000, 03000, 04000, 05000, and 10000 Data Value licenses.

*y represents the specific year of the subscription term (1, 2, 3, 4, or 5).

*zz represents a two-digit indicator of the time of purchase (e.g. 26).

System Compatibility

- DeltaV Flex System is supported with DeltaV v16.LTS or later for new systems or for systems larger than 1500 Flex DSTs.
- For existing systems prior to v16.LTS with fewer than 1500 Flex DSTs, DeltaV Flex system is supported in DeltaV v15 feature packs (FP1, FP2, and FP3).
- Upgrading an existing, pre-v16.LTS DeltaV Flex System to DeltaV v16.LTS or later requires a dongle swap for the latest Softkey or Physical LDK Dongle.

Related Products

- DeltaV PK Flex Controller
- DeltaV Workstation and Server hardware
- DeltaV M-series Traditional I/O
- DeltaV M-series Intrinsically Safe I/O (support starting in v15.FP2)
- M-series Virtual I/O Module 2
- Ethernet I/O card
- DeltaV OPC UA Servers and Clients
- ProfessionalPLUS Station Software Suite
- DeltaV Distributed Control System Product Support
- Professional Station Software Suite
- DeltaV Safety Instrumented System (SIS) with Electronic Marshalling
- DeltaV Base Station
- DeltaV Event Chronicle
- DeltaV InSight
- DeltaV Predict and DeltaV PredictPro
- DeltaV Neural
- DeltaV Adapt
- DeltaV Alarm Mosaic
- AMS Device Manager

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