

# DeltaV™ Flex System



- Packaged solution for the PK Flex Controller
- Lower upfront cost for small applications
- Add more functionality easily at your own pace
- Access to the latest DeltaV™ innovations

## Introduction

DeltaV™ Flex System (Flex System) is a subscription that combines term-based software licensing and product support in a packaged solution optimized for smaller, more modular system installations. This provides a simple way to procure, operate and maintain a fully functional DeltaV system and leverage innovations in small control systems.

Flex System is an attractive solution for Original Equipment Manufacturers (OEMs) that want to provide a small DeltaV system for a process skid or lab environment while minimizing initial investment cost.

## Benefits

### **Packaged solution that leverages PK Flex Controller.**

Provides DeltaV Functionality starting with an easy-to-order base software package in three different sizes (50, 100, or 250 Flex DSTs) that can be grown up to 1500 Flex DSTs, offering a great small system solution that utilizes the scalability of the PK Flex Controller.

### **Lower upfront cost for a small application.**

By combining software licensing and support in a subscription-based software package, Flex System lowers the initial investment required to start a small system like a skid or lab equipment.

**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. This extra functionality can be added at any time to your system.

**Access the latest DeltaV innovation.** Flex System uses the same DeltaV software as larger DeltaV systems but is packaged for smaller applications. This makes it easier to remain current with the latest innovations and also integrate with another DeltaV system if needed.

## Product Description

Flex System consists of a base software package that is subscription based and composed of Flex DSTs, ProPLUS license, OPC UA activation license for the ProPLUS, a Protocol license to be used in a PK Flex Controller, licenses for up to 32 Physical Ethernet devices, product support and hardware warranty for PK Flex Controllers 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 to the right and on the subsequent page 3, of this document.

## Key Points

- The DeltaV Flex System is a fully functional DeltaV system that utilizes subscription-based software licensing. All DeltaV software that is licensed in association with Flex System must be licensed on a subscription basis.
  - There are three options for the base package: 50 Flex DST, 100 Flex DST, or 250 Flex DST; all include a ProfessionalPLUS license.
  - Product support is included for all software that is licensed on a subscription basis.
  - More Flex DST capacity can be added to Flex System, up to 1500 Flex DSTs.
  - For more information on Flex DSTs, please refer to the PK Flex Controller product data sheet.
  - All hardware and add-on DeltaV components are sold separately.
  - There are no limits on the number of PK Flex Controllers, I/O cards, workstations, or other software licenses that can be added to Flex System (subject to the 1500 Flex DST limit).
- 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 or 250 Flex DSTs
  - P01 Protocol License (Modbus TCP or EtherNet/IP)
  - 32 Physical Device license (PDTs)
- ProPLUS Premium
- OPC UA Activation license
- Physical LDK USB dongle

*The DeltaV Flex System offering does not currently support a Softkey.*

### Product Support

- Product Support (formerly Guardian Support)
- HW Warranty for PK Flex Controller

### Required Hardware (Sold separately)

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

## 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 1,500 DSTs)
- ProPLUS Scaleup licenses (to a max of 1,500 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
- Operations Premium Performance Package license
- DeltaV Continuous Historian license
- Professional Station
- 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; xxx Flex DSTs; includes EtherNet/IP interface license	DVFLEXSwBPESxxx_YyFYzz
DeltaV Flex System base package subscription; xxx Flex DSTs; includes MODBUS TCP client interface license	DVFLEXSwBPMSxxx_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 (v15.FP1 or newer).

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).

\*xxx represents the capacity of the license (050 for 50 Flex DSTs, 100 for 100 Flex DSTs, or 250 for 250 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. 24).

## 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 PK Flex Controller Product 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 50 Flex DSTs and 50 ProfessionalPLUS Premium DSTs	DVFLEXDSTSwS050_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

Description	Model Number
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; 100 Signals	DVFLEX2204SwS100_YyFYzz
Advanced Unit Management base license subscription for use with DeltaV Flex System	DVFLEX3122SwSxxx_YyFYzz
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	DVFLEX2139SwSxxx_YyFYzz
Operator Station, full span of control, for use with DeltaV Flex System	DVFLEX2104SwS01_YyFYzz
DeltaV Live Operations Premium Performance Pack subscription for use with DeltaV Flex System	DVFLEX2104PSwS01_YyFYzz
Application Station base license subscription for use with DeltaV Flex System; xxx data values	DVFLEX2201SwSxxx_YyFYzz
DeltaV Continuous Historian subscription for use with DeltaV Flex System; 250 Parameter Scaleup	DVFLEXA42SwS0250_YyFYzz
DeltaV Continuous Historian on non-application station subscription for use with DeltaV Flex System	DVFLEXP42SwSOPx_YyFYzz
DeltaV Alarm Help subscription for use with DeltaV Flex System; license for use on 1 Operator Station	DVFLEX2149SwS01_YyFYzz
Professional Station, Full Span of Control, subscription for use with DeltaV Flex System	DVFLEX2102SwS01_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
Event Chronicle subscription for use with DeltaV Flex System	DVFLEX2143SwS01_YyFYzz
DeltaV InSight base license subscription for use with DeltaV Flex System	DVFLEX9140SwSxxx_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
DeltaV Alarm Mosaic subscription for use with DeltaV Flex System	DVFLEX2135SwS01_YyFYzz

Description	Model Number
EIOC, SZ Controller, and CSLS DST base license subscription for use with DeltaV Flex System; 25 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
Ethernet Connected I/O subscription license for use with EIOC in DeltaV Flex System; xxx physical devices	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
OPC Historical Data Access Server Subscription for use with DeltaV Flex System	DVFLEX2227SwS01_YyFYzz
OPC Events Server Subscription for use with DeltaV Flex System	DVFLEX2228SwS01_YyFYzz

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.

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

\*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).

-for Configuration Audit trail refers to 050, 100, 250 and 500 size. Remember that license needs to match your system size

-for Advanced Unit management refers to 002, 005, 010, and 020 Unit licenses

-for Basic Batch refers to 002, 005, 010, and 020 Unit licenses

-for Advanced Batch refers to 002, 005, 010, and 020 Unit licenses

-for Professional Batch refers to 002, 005, 010, and 020 Unit licenses

-for Application Stations refers to 250 or 500 Data Value licenses

-for DeltaV Insight 100 for up to 100 Analog Outputs and 250 for up to 250 Analog Outputs

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

-for Adapt 001 for 1 Adapt Function Block, 010 for 10 Adapt Function Blocks

\*x 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).

\*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. 24).

## System Compatibility

- DeltaV Flex System is supported with DeltaV v15.FP1 or later.

## Related Products

- DeltaV PK Flex Controller
- DeltaV Workstation and Server hardware
- DeltaV M-Series traditional I/O
- 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

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