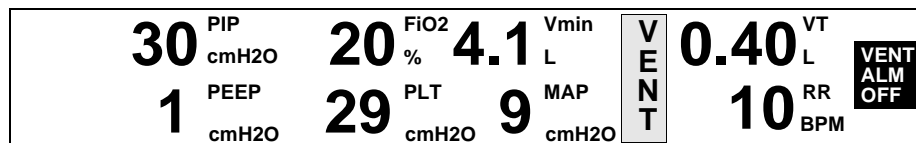
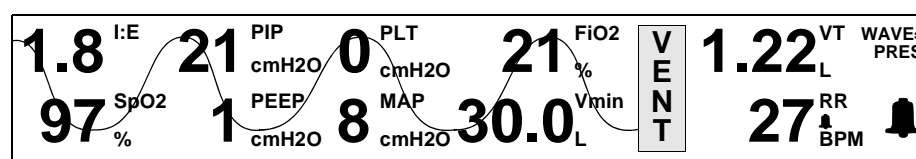




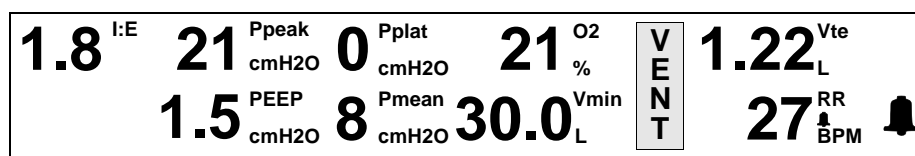
The 90436A Flexport® interface integrates data provided from ventilators into any Ultraview®/Ultraview SL™ or PCMS™ monitor. The Flexport interface provides bedside and central station display of alarms, and provides tabular and graphical trending of ventilator data. The Flexport interface provides Remote View and Alarm Watch capabilities from the central and remote monitors (refer to individual descriptions for limitations, if any). All Ultraview/Ultraview SL monitors support multiple Flexport interfaces.



Screen display for the 90436A-01, -09, -10x, -16, and -18 Flexport interface. Each option may have a slightly different display, depending on the specific ventilator interfaced.



Screen display for the 90436A-03 and -07 Flexport interface. Each option may have a slightly different display, depending on the specific ventilator interfaced.



Screen display for the 90436A-15 Flexport interface.

## Features

### Parameters

Each Flexport interface counts as one parameter when computing parameter capacity for monitors.

## Product Specifications

### Physical Dimensions

Height	2.5 cm (1 in)
Width	13.5 cm (5.3 in)
Depth	4.6 cm (1.8 in)
Weight	0.11 kg (4 oz)



## Environmental Requirements

### Operating

Temperature	10° to 40° C (50° to 104° F)
Humidity	95% (non-condensing)
Altitude	0 to 3,000 m

### Storage

Temperature	-40° to 75° C (-40° to 167° F)
Humidity	95% (non-condensing)
Altitude	0 to 12,192 m (0 to 40,000 ft)

## Connectors and Cable Length

### Connectors

Device	6-pin modular jack (8-pin receptacle for -41)
Monitor	9-pin male SDLC connector

### Cable Length

SDLC	30.5 cm (12 in)
RS-232	243.8 cm (96 in)

**Maximum SDLC Cable Length** Total length of all SDLC cables from the power source (monitor or module housing) to the Flexport interface should not exceed 1.8 m (6 ft).  
When linking other Spacelabs Healthcare devices, the Flexport interface must be the closest device to the monitor or module housing.

## Mounting Option

The Flexport interface housing holds up to three Flexports and can be easily wall mounted. To order the mounting option, refer to P/N 650-0201-00.



## Compatibility

**Note:**

Spacelabs Healthcare confirms that the Flexport software versions shown in the table that follows are verified for use with the software or protocol versions listed for the source devices.

Company, Product, or Source Device	Software or Protocol Version	Spacelabs Healthcare Flexport Software Version	Flexport Model Number
Phillips/Respironics Esprit	OTP Version 4.10, Flash 31.40	1.01.09	90436A-01
Hamilton Medical Galileo	3.2	1.00.02	90436A-07
Hamilton Medical Raphael XTC	3.2	1.00.02	90436A-07
Dräger Evita/Irisa	9.07 (Evita), 9.0, 9.5, 9.6 (Irisa)	1.00.05	90436A-09
Dräger Babylog 8000	Medibus 3.00	1.01.06EN	90436A-10B
Dräger Evita II Dura	CAP - 2.00 Dura - 4.10	1.00.09EN	90436A-10E
Medtronic/Covidien/Tyco Puritan Bennett 840	4-070212-85-N	1.01.06EN	90436A-15
Dräger Evita 4	4.22 / XL 5.1	1.00.02EN	90436A-16
Dräger Evita XL	5.1	1.00.02EN	90436A-16

## Ventilator Interfaces

**Note:**

Each interfaced device must have an appropriate RS-232 interface and operating software of a specific level to function with Flexport. Contact the device manufacturer to confirm compatibility before ordering.

Flexport Model Number	Company, Product, or Source Device	Transition Connector Part Number
90436A-01	Respironics Esprit	131-1589-00
90436A-07	Hamilton Galileo/Raphael XTC	131-0686-00
90436A-09	Dräger Evita/Irisa	131-0697-01
90436A-10B	Dräger Babylog 8000	131-0686-00
90436A-10E	Dräger Evita II Dura	131-0686-00
90436A-15	Tyco Puritan Bennett 840	131-1039-00
90436A-16	Dräger Evita 4/Evita XL	131-0686-02



## Data Displayed

Flexport Model Number	Company, Product, or Source Device	VT (V <sub>te</sub> ) or VT <sub>exp</sub>	V <sub>min</sub>	PLT (P <sub>plat</sub> )	PIP (P <sub>peak</sub> )	PEEP	MAP (P <sub>mean</sub> ) or MAWP	RR	SET-RR	SpO <sub>2</sub>	FiO <sub>2</sub> or O <sub>2</sub>	I:E	C	R	MODE	Waveform
90436A-01	Respironics Esprit	X	X	X	X	X	X	X		X*	X	X	X	X	X	
90436A-07	Hamilton Galileo/ Raphael XTC	X	X	X <sup>††</sup>	X	X <sup>†</sup>	X	X			X		X	X	X	Pressure, Flow, or Volume (optional)
90436A-09	Dräger Evita/Irisa**	X	X	X	X	X	X	X			X		X	X	X	
90436A-15	Tyco Puritan Bennett 840	X	X	X	X	X	X	X			X	X	X	X	X	

\* If the ventilator has the pulse oximetry option.

\*\* Pressure measurements for Dräger ventilators are displayed in mBar only.

† PEEP alarms are not available from the Galileo/Raphael XTC ventilators.

†† PLT pressures are not sent by ventilators in a non-pressure mode.

Label	Name
VT (V <sub>te</sub> ) or VT <sub>exp</sub>	Tidal Volume
V <sub>min</sub>	Minute Volume
PLT (P <sub>plat</sub> )	Plateau Pressure
PIP (P <sub>peak</sub> )	Peak Inspiratory Pressure
PEEP	Positive End Expiratory Pressure
MAP (P <sub>mean</sub> ) or MAWP	Mean Airway Pressure
RR	Respiration Rate

Label	Name
SET-RR	Respiration Rate Set on the Ventilator
SpO <sub>2</sub>	Pulse Oximetry Saturation
FiO <sub>2</sub> or O <sub>2</sub>	Fractional Inspired Oxygen
I:E	Inspired/Expired Ratio
C	Compliance
R	Resistance
MODE	Operating Mode



Flexport Model Number	Company, Product, or Source Device	VT	Vmin or VE	PLT or P <sub>plat</sub>	PIP	PEEP	MAP	RR or f	FiO <sub>2</sub>	C	R	SpVmin, MVspo, or MVspn	Leak	EtCO <sub>2</sub>	Pmin	iPEEP or PEEPi	OccPrs or P 0.1	T	V <sub>ds</sub>	VCO <sub>2</sub>	f-spo or f-spn	
90436A-10E	Dräger Evita II/ Evita II Dura	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X
90436A-10B	Dräger Babylog 8000		X		X	X	X	X	X			X	X									
90436A-16	Dräger Evita 4/ Evita XL											X		X	X	X	X	X	X	X	X	X

Label	Name
VT	Tidal Volume
Vmin	Minute Volume
VE	Expiratory Minute Volume
PLT or P <sub>plat</sub>	Plateau Pressure
PIP	Peak Inspiratory Pressure
PEEP	Positive End Expiratory Pressure
MAP	Mean Airway Pressure
RR or f	Respiration Rate
FiO <sub>2</sub> or O <sub>2</sub>	Fractional Inspired Oxygen
C	Compliance
R	Resistance

Label	Name
SpVmin, MVspo, or MVspn	Spontaneous Minute Volume
Leak	Leakage Value
EtCO <sub>2</sub>	End-Tidal CO <sub>2</sub>
Pmin	Minimal Airway Pressure
iPEEP or PEEPi	Intrinsic PEEP
OccPrs or P 0.1	Occlusion Pressure
T	Airway Temperature
V <sub>ds</sub>	Dead Space
VCO <sub>2</sub>	CO <sub>2</sub> Production
f-spo or f-spn	Spontaneous Breathing Frequency

## Documentation

CD-ROM Part Number

Flexport Interface Documents CD-ROM  
(P/N 084-0901-xx)

## Regulatory Approvals



CE marked in accordance with the Medical Device Directive 93/42/EEC.

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