

**Features**

- Automatic purge and pressurization system for most applications
- User-friendly, easy programming
- LCD screen for operation status and LED's for quick visual identification of system
- HART communication through RS485 with PACTware and device app's through Bluetooth
- Maximum enclosure size 12.75 cubic meters
- Compact design with panel mounts or direct mounts available
- Universal power 20 to 30 VDC / 100 to 250 VAC. 50 to 60 HZ
- Pressure, temperature, dilution control and monitoring

**Application**

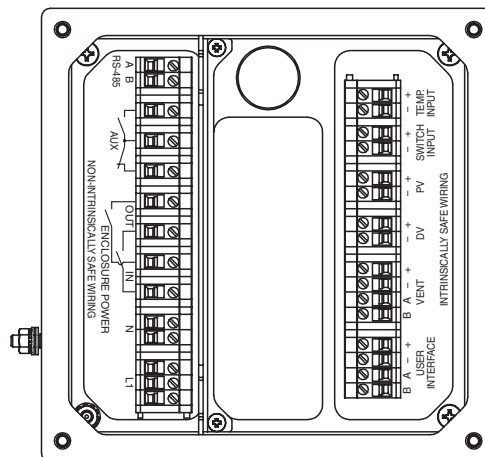
The 6500 system consists of the 6500 control unit, EPV6500 pressure relief and monitoring vent, and a valve for pressurization, purging, and with some models dilution for analyzer applications.

The 6500 control unit is a compact design consisting of the user-interface for programming with an LCD for system operation with LED's for quick indication of the system status through completely sealed capacitive touch buttons. The unit has an input for a 2-wire RTD for temperature control/monitoring.

Select models are available for mounting the user-interface to the enclosure wall and the EPCU unit to the back panel of the enclosure or outside the enclosure for a clean, nonintrusive look. The HART output allows the unit to be connected to a PC using PACTware or the customers AMS. This is great for remote monitoring and capturing trending and status of the system. An App for android, blackberry, and apple devices allows connection through the 6500 control units Bluetooth.



**Connection**



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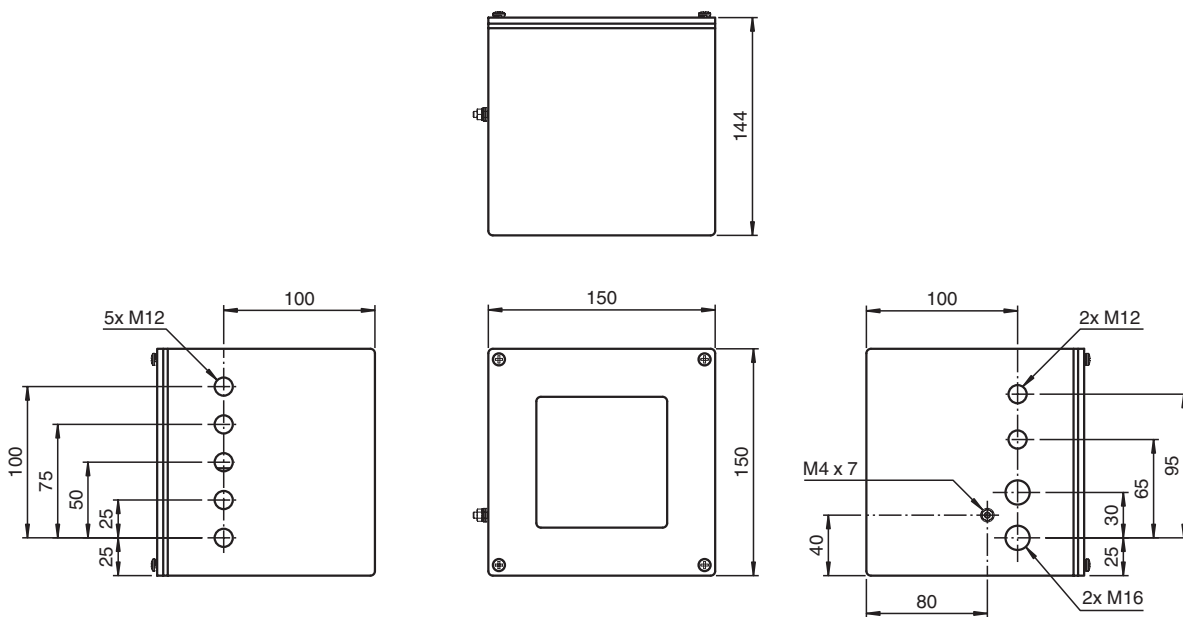
Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

<b>General specifications</b>	
Operating mode	user programmable
Series	6500
Number of volume exchanges	5 to 19
Hazardous environment	gas, dust, gas and dust
<b>Supply</b>	
Rated voltage $U_n$	100 ... 240 V AC, 48 ... 62 Hz / 0.2 A 20 ... 30 V DC
<b>Electrical specifications</b>	
Connection	<b>EPCU:</b> Terminal blocks and grounding screw <b>UIC:</b> 4-pin connector and cable (provided), for the 6500-01-PM02, cable length is 5 meters <b>Input type:</b> intrinsically safe
<b>Input</b>	
Input I	Voltage free contact or namur proximity sensor
Input type	Intrinsically Safe, Ex ib
Input II	(1) 2-wire, PT100 RTD
Input type	Intrinsically Safe, Ex ib
<b>Output</b>	
Output I	AUX
Output type	Voltage free contact outputs, SPDT configuration
Inrush current	2 A
Contact loading	2 A @ 240VAC, resistive, 2 A @ 24VDC
Output II	Enclosure
Output type	Voltage free contact outputs, 2 N.O. configuration
Inrush current	8 A
Contact loading	8A @ 240 V AC, resistive up to 60 °C 8A @ 24 V DC up to 60 °C 5A @ 240 V AC, resistive, 60 to 70 °C 5A @ 24 V DC up to 60 to 70 °C
Fuse	External fusing is required at no more than 11 amps/1500 A breaking current
Output III	Digital valve When used with the 6500-MAN-DV-01, intrinsically safe Internal resistance 280 Ω
Output IV	Proportional valve When used with the 6500-MAN-PV-01, intrinsically safe Current: 4 to 20 mA Max. load: 300 Ω
Communication	HART via RS485 (PACTware available)
<b>Indicators/settings</b>	
Display elements	2x20 LCD for configuration, monitoring, and status of the 65000 system with back light and contrast selection. Capacitive touch buttons
LED indicator	Safe pressure: Blue - safe pressure is achieved Enclosure power: Green - power on; Red - power off Rapid exchange: Blue - purging is running System bypass: Yellow - bypass is activated Alarm fault: Red (blinking) - any alarm input detected; Red (solid) - 6000 series system fault Key: green - a button on the capacitive touch display has been activated. Momentary indication
<b>Pneumatic parameters</b>	
Protective gas supply	instrument grade air or inert gas
Pressure requirement	For 6500-MAN-DV: 1.4 to 8.3 bar (20 to 120psig) regulated For 6500-MAN-PV: 3.5 to 6.9 bar (50 to 100 psig) regulated Note: max. pressure will depend on the vent model used. regulated
Safe pressure	Gas: 0.35" wc (8,88 mm wc) (0.88 mbar/ 88 pa) Dust: 0.35" wc (8,88 mm wc) (0.88 mbar/ 88 pa) Gas+Dust: 0.35" wc (8,88 mm wc) (0.88 mbar/ 88 pa)
Valve flows	<b>Standard vent series:</b> EPV-6500-*-01, 03, 05 Readout on display is from 56 to 850 l/min (2 to 30 scfm) in increments of 28l/min (1 scfm). Minimum and maximum reading depending on type of vent and supply pressure. See data sheet for EPV-6500 series vent.  <b>Continuous (Dilution) vent series:</b> EPV-6500-*-07, 08 Readout on display is from 17 to 226 l/min (0.6 to 8 scfm) continuous reading. Maximum reading depending on type of vent and supply pressure. See data sheet for EPV-6500 series vent.
<b>Ambient conditions</b>	
Ambient temperature	-20 ... 70 °C (-4 ... 158 °F)
Storage temperature	-40 ... 70 °C (-40 ... 158 °F)
Relative humidity	5 ... 85 %, non-condensing
Vibration resistance	5 ... 100 Hz , 1 g, 12 m/s <sup>2</sup> , all axes

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Impact resistance	30 g, 11 ms, all axes
<b>Mechanical specifications</b>	
Connection type	See mounting in 6500 manual and cable gland requirements
Cable gland	<b>Cable gland requirement:</b> cable glands are not included. Customer can supply there own approved glands or use one of the 6500-CBLG-... cable gland kits. <b>I.S.cable glands:</b> requires (5) M12 approved cable glands <b>Power cable glands:</b> requires (2) m20 and (2) M12 approved cable glands
Degree of protection	IP66
Material	<b>UIC display:</b> Makrolon FI cover and A380 Aluminum anodized casing <b>Housing:</b> 316L stainless steel <b>Hardware:</b> 316L stainless steel
Mass	approx. 5 kg (11.0 lbs)
Dimensions	6500-01-EXT1: 150 x 150 x 145 mm (5.9" x 5.9" x 5.7") 6500-01-PM01: 150 x 150 x 185 mm (5.9" x 5.9" x 7.3") 6500-01-PM02: EPCU: 150 x 150 x 145 mm (5.9" x 5.9" x 5.7"), UIC: 150 x 150 x 45 mm (5.9" x 5.9" x 1.8")
<b>Data for application in connection with Ex-areas</b>	
EC-Type Examination Certificate	ATEX UL / DEMKO 15 ATEX 1622X
Directive conformity	EN 60079-0:2012 , EN 60079-2:2014 , EN 60079-11:2011
<b>International approvals</b>	
IECEx approval	IECEx UL / DEMKO 15.0147X
<b>General information</b>	
Supplementary information	EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a> .

**Dimensions**



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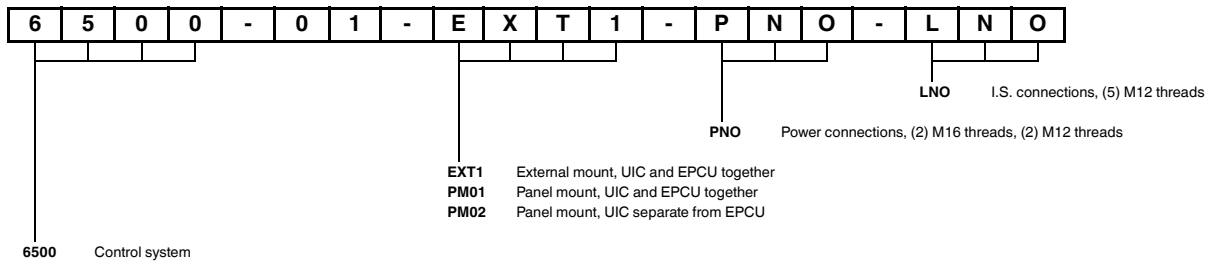
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Type code/model number



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