 Number of Bytes = 48 	 Checksum Scheme = XOR (Byte 0 to Byte 46)
 Packet Header = \$OVP 	Interface: 232
Update Rate 50Hz	Baud Rate: 115200

Byte #	Bit #	Data	Units	Data Type	Range	Scale Factor	Offs et
0 – 3	-	\$OVP	-	-	-	-	-
4 – 7	-	Timestamp	msec	unsigned int	-	1	-
8 – 9	-	Measured Tidal Vol	ml	unsigned int	-2000 to 2000	4000/6553 5	2000
10–11	-	Measured Pressure	cmH2 O	unsigned int	-30 to 60	90 / 65535	-30
12–13	-	Measured Flow Rate	slpm	unsigned int	-200 to 200	400 / 65535	-200
14–15	-	PEEP	cmH2 O	unsigned int	-10 to 30	40 / 65535	-10
16–17	-	Plateau Pressure	cmH2 O	unsigned int	-30 to 60	90 / 65535	-30
18–19	-	FiO2	%	unsigned int	0 to 100	100 / 65535	-
20–21	-	Tidal Volume set pt.	mL	unsigned int	0 to 1000	1	-
22	-	Insp Press set pt.	cmH2 O	unsigned int	-30 to 60	1	-30
23	-	Respiratory Rate Setpoint	bpm	unsigned int	0 to 40	1	-
24	D0- D3	I / E Setpoint (Inhale)	-	unsigned int	0 to 4	1	-
	D4- D7	I / E Setpoint (Exhale)	-	unsigned int	0 to 4	1	-

25	-	FiO2 Setpoint (Lower Bound)	%	unsigned int	0 to 100	1	-				
26	-	Exp Press set pt.	cmH2 O	unsigned int	-30 to 60	1	-30				
	-	Error Status Byte 1 1 = Alarm 0 = OK									
	D0	Battery in Use									
	D1	Circuit Integrity Failed									
27	D2	High Respiratory Rate	-	unsigned int	0 to 255	1	-				
	D3	High FiO2									
	D4	High PEEP									
	D5	High Plateau									
	D6	High Peak Pressure									
	D7	Low Inspiratory Pressure									
28	-	Patient Weight	kg	unsigned int	0 to 255	1	-				
29	D0- D1	Breathing Phase 0 – Wait 1 – Inspiratory 2 – Hold 3 – Expiratory	-	unsigned int	0 to 255	1	-				
	D2- D4	Ventilation Mode									
		0 – VCV									
		1 – PCV									
		2 – AC-VCV									

		3 –AC- PCV					
		4- CPAP					
	D5	Ventilator Control 0 – Inactive					
		1 – Active					
		Self-Test Status 0 – Not Init					
	D6 - D7	1 – In Prog					
	σ,	2 – FAIL					
		3 – PASS					
30-31	-	Volume Inhaled	ml	unsigned	-2000 to	4000/6553	-
				int	2000	5	2000
32–33	-	Volume Exhaled	ml	unsigned int	-2000 to 2000	4000/6553 5	2000
34-35	-	Minute Ventilation	slm	unsigned int	0 to 40	40/65535	-
36-37	-	Compliance	ml/ cmH₂O	unsigned int	0 to 400	400 / 65535	-
38	-	Trigger Sensitivity	-	unsigned int	-20 to 5	25/255	-20
39	-	Measured Respiratory Rate	bpm	unsigned int	0 to 40	1	-
<mark>40</mark>	-	I / E Measured (Exhale)	-	<mark>unsigned</mark> int	0.0 to 4.0	3 / 255	-
41		Error Status Byte 2	-	unsigned	0 to 255	1	-
	-	1 = Alarm		int			
		0 = OK					
	D0	Low FiO2					
	D1	Low PEEP					

	D2	Low Plateau Pressure										
	D3	Oxygen Failure										
	D4	Low Tidal Volume										
	D5	High Tidal Volume										
	D6	System Reset										
	D7	Low Minute Ventilation										
		Error Status Byte 3										
	-	1 = Alarm										
		0 = OK										
	D0	High Minute Ventilation										
	D1 Circuit Disconnected											
42	D2	Mechanical Integrity Failed	-	-	unsigned int	0 to 255	1	-				
	D3	Homing not Done										
	D4	96 Hours of Operation										
	D5	Flow Sensor Disconnected										
	D6	Pressure Sensor Disconnected										
	D7	O2 Sensor Disconnected										
43	-	Error Status Byte 4 1 = Alarm	-	unsigned int	0 to 255	1	-					

		0 = OK					
	D0	Low RR					
	D1	SPARE					
	D2	SPARE					
	D3	SPARE					
	D4	SPARE					
	D5	SPARE					
	D6	SPARE					
	D7	SPARE					
44	-	FiO2 Setpoint (Upper Bound)	%	unsigned int	0 to 100	1	-
45-46	-	Peak Pressure	cmH2 O	unsigned int	-30 to 60	90 / 65535	-30
47	-	Checksum XOR	-	unsigned int	0 to 255	1	-