OpenVentPK Serial Telemetry Packet Definition

• Number of Bytes = 35	• Checksum Scheme = XOR (Byte 0 to Byte 33)
• Packet Header = $OVP	• Interface: 232
• Update Rate 100Hz	• Baud Rate: 115200

Byte #	Bit #	Data	Units	Data Type	Range	Scale Factor	Offset
0 – 3	-	$OVP	-	-	-	-	-
4 – 7	-	Timestamp	msec	unsigned int	-	1	-
8 – 9	-	Measured Tidal Vol	ml	unsigned int	-2000 to 2000	4000/65535	-2000
10–11	-	Measured Pressure	cmH2O	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	cmH2O	unsigned int	-10 to 30	40 / 65535	-10
16–17	-	Plateau Pressure	cmH2O	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.	cmH2O	unsigned int	-30 to 60	1	-30
23	-	BPM 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	%	unsigned int	0 to 100	1	-
26	-	Exp Press set pt.	cmH2O	unsigned int	-30 to 60	1	-30
27	-	Error Status Byte	-	unsigned int	0 to 255	1	-
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	Ventilator Mode 0 – Vol Controlled 1 – Press Controlled					
	D3	Breathing Mode 0 – Mandatory 1 – Assisted					
	D4	Ventilator Control 0 – Inactive 1 – Active					
	D5 – D6	Self-Test Status 0 – Not Init 1 – In Prog 2 – FAIL 3 – PASS					
	D7	SPARE					
30–31	-	Volume Inhaled	ml	unsigned int	-2000 to 2000	4000/65535	-2000
32–33	-	Volume Exhaled	ml	unsigned int	-2000 to 2000	4000/65535	-2000
34	-	Checksum XOR	-	unsigned int	0 to 255	1	-

Originator: Sohaib Ashraf