25-Mar-22

PGNs	230	234	254	32613	32614	32616	32618
	VR data to RC from AGIO	section status to AOG from RC	AutoSteer Data to RC from AGIO	rate applied from arduino to RC	settings to arduino from RC	PID to arduino from RC	Switch Positions to RC from switch box
0	128	128	128	101	102	104	106
1	129	129	129	127	127	127	127
2	source	source	source	rate sensor ID low 4 bits, arduino ID high 4 bits	rate sensor ID low 4 bits, arduino ID high 4 bits	rate sensor ID low 4 bits, arduino ID high 4 bits	auto, Mstr On, Mstr Off,Rate Up, Rate Down
3	AGIO PGN 0xE6 (230)	AGIO PGN 0xEA (234)	AGIO PGN 0xFE (254)	rate applied Lo, 10 X actual	relay Lo, 0-7	KP	sw0, sw1, sw2, sw3, sw4, sw5, sw6, sw7
4	length	length	length	rate applied Mid	relay Hi, 8-15	MinPWM	sw8, sw9, sw10, sw11, sw12, sw13, sw14, sw15
5	rate 0 Lo	Main	speed Lo - kmh X 10	rate applied Hi	rate set Lo, 10 X actual	LowMax	
6	rate 0 Hi	-	speed Hi	acc. Quantity Lo, 10 X actual	rate set Mid	HighMax	
7	rate 1 Lo	-	status	acc. Quantity Mid	rate set Hi	Deadband	
8	rate 1 Hi	Number of sections	steer angle Lo	acc. Quantity Hi	flow Cal Lo	BrakePoint	
9	rate 2 Lo	On Group 0	steer angle Hi	PWM Lo	flow Cal Hi, 100 X actual	TimedAdjustment	
10	rate 2 Hi	Off Group 0	-	PWM Hi	Commands		
11	rate 3 Lo	On Group 1	Relay Lo		**byte 9**		
12	rate 3 Hi	Off Group 1	Relay Hi		bit 0, reset acc. Quantity		
13	rate 4 Lo	CRC	CRC		bit 1/2, control type 0-3		
14	rate 4 Hi				bit 3, simulate flow		
15	CRC				bit 4, pulses to measure		
16					bit 5, Auto On		

	32619	32620	32621	32622	32623	32624	32625	32626	32627
	Wifi section switches to arduino	Section switch IDs to arduino from RC	pressures to RC from arduino	PCB config	PCB config 2	PCB pins	Nano Config	Nano Pins	Switchbox Pins
0	107	108	109	110	111	112	113	114	115
1	127	127	127	127	127	127	127	127	127
2	Master On	sec 0, 1	arduino ID	Receiver, 0 none, 1 SimpleRTK2B, 2 Sparkfun	Minimum speed	Steer DIR	ModuleID	Flow1	SW0
3	sw0, sw1, sw2, sw3, sw4, sw5, sw6, sw7	sec 2, 3	sensor 0, Lo	NMEA serial port	Maximum speed	Steer PWM	SensorCount	Flow2	SW1
4	sw8, sw9, sw10, sw11, sw12, sw13, sw14, sw15	sec 4, 5	sensor 0, Hi	RTCM serial port	Pulse Cal X 10, Lo	Steer switch	Commands	Dir1	SW2
5		sec 6, 7	sensor 1, Lo	RTCM UDP port #, Lo	pulse Cal X 10, HI	Wheel angle sensor	**Byte 4:**	Dir2	SW3
6		sec 8, 9	sensor 1, Hi	RTCM UDP port #, Hi	ADS1115 WAS pin	Steer relay	UseMCP23017	PWM1	Auto
7		sec 10, 11	sensor 2, Lo	IMU, 0 none, 1 Sparkfun, 2 CMPS14, 3 Adafruit	RS485 port number	Work switch	Relay on signal	PWM2	Master On
8		sec 12, 13	sensor 2, Hi	IMU read delay	Module ID	Current sensor	flow on signal	Relay 1	Master Off
9		sec 14,15	sensor 3, Lo	IMU report interval	Commands	Pressure sensor		Relay 2	Rate Up
10		ex: sec 0 is low 4 bits, sec 1 is high 4 bits of byte 2	sensor 3, Hi	WAS zero offset, Lo	Restart	Encoder		Relay 3	Rate Down
11				WAS zero offset, Hi	**Byte 9:**	Rate DIR		Relay 4	
12				Restart	bit 0, GyroOn	Rate PWM		Relay 5	
13					bit 1, GGAlast	Speed pulse		Relay 6	
14					bit 4, Use rate control	RS485 send enable		Relay 7	
15					bit 7, use ADS1115	Restart		Relay 8	
16					bit 5, Relay on signal			Relay 9	
17					bit 6, flow on signal			Relay 10	
18					bit 2, Swap pitch for roll			Relay 11	
19					bit 3, Invert roll			Relay 12	
20								Relay 13	
21								Relay 14	
22								Relay 15	
23								Relay 16	