

Appendix B:

Super Wasp - PLC Command Structure

D-Memory	Description	State	Duration	
100.0	Close Roof	1 = Close	As req.	HR1.0
100.1	Open Roof	1 = Open	As req.	HR1.1
100.2	mains/Battery	1 = Mains	As req.	HR1.2
100.3				HR1.3
100.4	Rain on/off	1 = Rain Det. On	As req.	HR1.4
100.5				HR1.5
100.6				HR1.6
100.7				HR1.7
100.8	Req Control	set to 1 briefly	once	HR1.8
100.9				HR1.9
100.10				HR1.10
100.11				HR1.11
100.12	Accept Power delay	1 = Load	Once	HR1.12
100.13	Accept Comms delay	1 = Load	Once	HR1.13
100.14	Req Telescope Control	set to 1 briefly.	Once	HR1.14
100.15	Watchdog Reset	1	Always	HR1.15
101	Delay before power closure	0-9999Sec	Once	
102	Delay before PC comms failure closure	0-9999Sec	Once	
103	Reserved			
104	Reserved			
105	Reserved			

Table 1: Data from Control PC

D-Memory	Description	State		
150.0	Roof Closed	1 = Roof Closed		HR6.0
150.1	Roof Open	1 = Roof Open		HR6.1
150.2	Roof moving	1 = Roof Moving		HR6.2
150.3	Roof Remote/Manual	1 = Roof remote control 0 = Manual		HR6.3
150.4	Raining	1 = Raining		HR6.4
150.5	Forced Rain Closure	1 = Forced closure due to Rain		HR6.5
150.6	Building temp High	1 = Building temperature is high		HR6.6
150.7	Extractor fan on	1 = Extractor fan is swiched on		HR6.7
150.8	Motor Stop Pressed	1 = Stop pressed		HR6.8
150.9	Roof AC motor status	0 = AC Motor OK 1 = AC motor tripped		HR6.9
150.10	Roof motor in use	0 = AC motor in use 1 = Battery motor in use		HR6.10
150.11	Close Proximity	1 = Proximity triggered		HR6.11
150.12	Power Failure	1 = Mains Failure		HR6.12
150.13	Forced Power closure	1 = Mains Failure Forced Closure		HR6.13
150.14	Open Proximity	1 = Proximity triggered		HR6.14
150.15	Door Sensor	1 = Door Open		HR6.15
151	Power delay feedback			
152	comms delay feedback			
153.0				HR8.0
153.1				HR8.1
153.2				HR8.2
153.3				HR8.3
153.4				HR8.4
153.5				HR8.5
153.6				HR8.6
153.7				HR8.7
153.8	Tilt 1hour East			HR8.8
153.9	Tilt 1hour West			HR8.9
153.10	Tilt 6hours East			HR8.10
153.11	Tilt 6hours West			HR8.11
153.12	Ra Limit East			HR8.12
153.13	Ra Limet West			HR8.13
153.14	Telescope drive control	0= Normal 1 = Roof controller		HR8.14
153.15				HR8.15

Table 2: Data to Control PC