

## APPENDIX B - MOUNT SPECIFIC DATA

### For RF SCIENTIFIC 2.4 m.

#### 1.2 Mount Models

DESIGNATION	MODEL
F1	2.4 m. RF Scientific

#### 1.3.2 System Interface Requirements

This mount follows the basic RC3000 interface with the exception that no polarization feedback is present. The controller will function as if there is a circular polarized feed present (no polarization angle displayed).

#### 2.1.4 Inclinometer Orientation

The inclinometer should be rigged with the face of the reflector vertical.

#### 2.3.2 Elevation Reference Position

MODEL	VOLTAGE	OFFSET ANGLE
F1	1.69	22.5

#### 3.2.1 Manual Mode.

Since there is no polarization feedback present, no polarization angle is displayed. Pushing the POL CW and POL CCW keys will energize the polarization drive lines.

#### 3.3.1.2 Reset Defaults

The following table supplies the default configuration item values for each model of mount. Space has also been provided to record installation specific changes to the configuration items. Note: recording of installation specific changes to defaults may prove valuable when trying to restore system configuration.

CONFIGURATION ITEM	V8	INSTALL VALUE
<b>SYSTEM DEFINITION</b>		
GPS	1	
Compass	1	
Mode	2	
Waveguide	0	
antenna_size_cm	244	
<b>AZIMUTH CALIBRATION</b>		
Zero Voltage	2.50	
Azim_offset	0.0	
ccw_azim_limit	135	
Cw_azim_limit	135	
Azim_Scale_Factor	56.25	
<b>ELEVATION CALIBRATION</b>		
Zero Voltage	1.69	
Elev_offset	0.0	
Up_elev_limit	90	
Down_elev_limit	0	
Elevation_Scale_Factor	50.00	
Elevation_look_configuration	1	
<b>POLARIZATION CAL</b>		
Zero Voltage	2.50	N/A
Polarization_Offset	0.0	N/A
CW Polarization Limit	90.0	N/A
CCW Polarization Limit	90.0	N/A
Pol_Scale_Factor	37.50	N/A
Polarization_type	1	N/A
H/V_Reference	1	N/A
Default Horizontal Position	-45.0	N/A
Default Vertical Position	45.0	N/A
Pol_Automove_Enable	1	N/A
<b>SIGNAL PARAMETERS</b>		
Channel 1 Polarity	1	
Channel 1 Threshold	100	
Channel 1 Delay	0.1	
Channel 1 Lock Type	0	
Channel 2 Polarity	1	
Channel 2 Threshold	100	
Channel 2 Delay	0.1	
Channel 2 Lock Type	0	
<b>AUTOPEAK</b>		
Autopeak Enabled	0	
Signal Source	1	
RF Band	1	
Spiral Search AZ Limit	3	
Spiral Search EL Limit	3	
Spiral Signal Threshold	200	
Scan Range Limit	8	
Scan Signal Threshold	200	

<b>CONFIGURATION ITEM</b>	<b>F1</b>	<b>INSTALL VALUE</b>
<b>AZIMUTH POT DRIVE</b>		
Fast/Slow Threshold	2.5	
Maximum Position Error	0.20	
Coast Threshold	0.1	
Maximum Retry Count	3	
<b>AZIMUTH PULSE DRIVE</b>		
Pulse Scale Factor	955	
CW Pulse Limit	64000	
CCW Pulse Limit	100	
Fast/Slow Threshold	50	
Maximum Position Error	0	
Coast Threshold	3	
Maximum Retry Count	3	
<b>AZIM DRIVE MONITORING</b>		
Jam Slop	1	
Runaway Slop	200	
Fast Deadband	1000	
Slow Deadband	500	
<b>ELEV POT DRIVE</b>		
Fast/Slow Threshold	3.0	
Maximum Position Error	0.2	
Coast Threshold	0.4	
Maximum Retry Count	3	
<b>ELEV PULSE DRIVE</b>		
Pulse Scale Factor	2564	
UP Pulse Limit	64000	
Down Pulse Limit	100	
Fast/Slow Threshold	50	
Maximum Position Error	0	
Coast Threshold	3	
Maximum Retry Count	3	
<b>ELEV DRIVE MONITORING</b>		
Jam Slop	1	
Runaway Slop	200	
Fast Deadband	1000	
Slow Deadband	500	
<b>POL POT DRIVE</b>		
Fast/Slow Threshold	2.0N/A	
Maximum Position Error	0.5N/A	
Coast Threshold	0.3N/A	
Maximum Retry Count	3N/A	
<b>POL DRIVE MONITORING</b>		
Jam Slop	1N/A	
Runaway Slop	200N/A	
Fast Deadband	1000N/A	
Slow Deadband	500N/A	

<b>CONFIGURATION ITEM</b>	<b>F1</b>	<b>INSTALL VALUE</b>
<b>TRACK</b>		
Search Enable	0	
Max Track Error	3	
Search Width	4	
Peakup Holdoff Time	120	
Track Signal Source	2	
Signal Sample Time	2	
<b>REMOTE CONTROL</b>		
Remote Enabled	1	
Bus Address	50	
Baud Rate	6	
<b>STOW / DEPLOY</b>		
AZ STOW	0.0	
EL STOW	-67.5	
PL STOW	0.0	N/A
AZ DEPLOY	0.0	
EL DEPLOY	18.8	
PL DEPLOY	0.0	N/A
PL ENABLED	0	

