

## APPENDIX B - MOUNT SPECIFIC DATA

### For VERTEX DMK/SMK Mounts

#### 1.2 Mount Models

DESIGNATION	MODEL
V1	2.4 m. DMK
V2	1.5 m. SMK
V3	2.6 m. DMK
V4	1.2 m. SMK
V5	1.5 m. SMK-LT
V6	RC3000C pointing solution calculator
V7	1.2 m. SMK-LT
V8	1.8 m. SMK-LT

#### 1.3.2 System Interface Requirements

All mounts in the Vertex family follow the standard RC3000 interface requirements.

#### 2.1.4 Inclinator Orientation

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

#### 2.3.2 Elevation Reference Position

MODEL	VOLTAGE	OFFSET ANGLE
V1	1.69	22.3
V2	1.69	15.8
V3	1.69	22.3
V4	1.69	15.8
V5	1.69	15.8
V6	N/A	N/A
V7	1.69	12.8
V8	1.69	18.5

#### 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	V1	V2	V3	V4	V5	V7	V8	INSTALL VALUE
<b>SYSTEM DEFINITION</b>								
antenna_size_cm	244	150	260	120	150	120	180	
<b>AZIMUTH CALIBRATION</b>								
Zero Voltage	2.50							
Azim_offset	0.0							
ccw_azim_limit	180		90					
Cw_azim_limit	180		90					
Azim_Scale_Factor	75.00	75.00	37.50	75.00	56.25	56.25	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							
Polarization_Offset	0.0							
CW Polarization Limit	90.0							
CCW Polarization Limit	90.0							
Pol_Scale_Factor								
Polarization_type	2							
H/V_Reference	1							
Default Horizontal Position	-45.0							
Default Vertical Position	45.0							
Pol_Automove_Enable	1							
<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							

CONFIGURATION ITEM	V1	V2	V3	V4	V5	V7	V8	INSTALL VALUE
<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	2406							
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	1646							
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	2.0							
Maximum Position Error	0.5							
Coast Threshold	0.3							
Maximum Retry Count	3							
<b>POL DRIVE MONITORING</b>								
Jam Slop	1							
Runaway Slop	200							
Fast Deadband	1000							
Slow Deadband	500							

