

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
VH	1.5 m. SMK-LT with +/- 200 azimuth travel

1.3.2 System Interface Requirements

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

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
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	1.10	18.8
VH	1.69	15.8

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	VHINSTALL VALUE
SYSTEM DEFINITION								
antenna_size_cm	244	150	260	120	150	120	180	150
AZIMUTH CALIBRATION								
Zero Voltage	2.50							
Azim_offset	0.0							
ccw_azim_limit	180		90					180
Cw_azim_limit	180		90					180
Azim_Scale_Factor	75.00	75.00	37.50	75.00	56.25	56.25	56.25	80.0
ELEVATION CALIBRATION								
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							
POLARIZATION CAL								
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							
SIGNAL PARAMETERS								
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							
AUTOPEAK								
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	VHINSTALL VALUE
AZIMUTH POT DRIVE								
Fast/Slow Threshold	2.5							
Maximum Position Error	0.20							
Coast Threshold	0.1							
Maximum Retry Count	3							
AZIMUTH PULSE DRIVE								
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							
AZIM DRIVE MONITORING								
Jam Slop	1							
Runaway Slop	200							
Fast Deadband	1000							
Slow Deadband	500							
ELEV POT DRIVE								
Fast/Slow Threshold	3.0							
Maximum Position Error	0.2							
Coast Threshold	0.4							
Maximum Retry Count	3							
ELEV PULSE DRIVE								
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							
ELEV DRIVE MONITORING								
Jam Slop	1							
Runaway Slop	200							
Fast Deadband	1000							
Slow Deadband	500							
POL POT DRIVE								
Fast/Slow Threshold	2.0							
Maximum Position Error	0.5							
Coast Threshold	0.3							
Maximum Retry Count	3							
POL DRIVE MONITORING								
Jam Slop	1							
Runaway Slop	200							
Fast Deadband	1000							
Slow Deadband	500							

