Technical Characteristics OPM-2

GENERAL

Mount type:	Dual-axis motorized polar mount, fully counter balanced
Material:	Hot-dip galvanized steel with stainless steel accessories
Antenna:	2.4m Prodelin Model 1251 (or similar), C- and Ku-band (with slightly reduced antenna size also Ka-band)
Fixation:	NP-mount or concrete base with mast as for original 1251.
System Controller:	Self contained enclosure on mast, with RJ-45 IP connection.

FUNCTIONALITY

Azimuth Pointing :	-85° / +30°, -55° / +55°, -30° / +85° (in-field selectable)
Inclined Tracking:	Instantaneous for all satellites in view, up to 10° inclination
Pointing Error:	Typically better than ± 0.2° under all conditions
Deployment Area:	Anywhere within ± 80° Latitude
Power Recovery:	Fully automatic, warm start 20 sec, cold start approx. 3min In most cases a warm start will be made. Only if the power failure occurred when one of the motors was moving, a cold start will be made.
Real-time Clock:	Accuracy better than ± 1 sec over lifetime (GPS controlled)

ACTUATORS

Type:	Linear Ball-Screw Actuators with electric brake release
Motors:	48VDC maximum 350W
Linear Speed:	Nominally 12 mm/s, reduced by control electronics
Linear Force:	Typical 8000N
Protection Class:	IP-55 re-enforced

ENVIRONMENTAL

Temperature:	-20° to +40°
Windload:	As for original antenna
Design Lifetime:	Minimum 15 years

POWER

Supply voltage:	230VAC, 50-60 Hz
Rating:	350W when in motion (max 1% of time) 20W when stationary

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