

sat-nms ACU-ODU-AC – outdoor cabinet

Are you searching for a reliable nearly plug-and-play solution as your new antenna control system? The **sat-nms** ACU-ODU-AC is exactly what you were looking for! It fits all antenna types with induction AC motors up to 7.5kW, no matter if you refurbish an existing antenna or if you install a new one. It comes with pre-configured frequency inverters for easy starting-up.

Core module is the well-known **sat-nms** ACU-ODM which might be configured with encoder interfaces for analog resolvers, digital encoders with SSI interface or potentiometers. It is available with step-tracking option or as pointing only version. The **sat-nms** LBRX beacon receiver for antenna tracking is available as small DIN-Rail version for installing directly to the cabinet or as 19" rack mount version.

The standard configuration already includes an interface for **sat-nms** LCPH or LCPHD-PT handheld controller. This interface is also compatible to the Vertex PMCU Handheld, including angle position display! A lot of options are available to tailor the control cabinet along your demands.

The cabinet is available in two versions:

- 1) ACU-ODU-AC-DS: small cabinet (600x600x250mm) for motors up to 3kW
- 2) ACU-ODU-AC-DE: large cabinet (760x760x300mm) for motors up to 7.5kW



ACU-ODU-AC-DE, standard with 4kW inverters



ACU-ODU-AC-DS, standard with 3kW inverters

Key Features

- Web-based, user-friendly operator interface
- Step-track algorithm as option available
- Together with **sat-nms** LBRX a complete step-track system in a cabinet at the antenna
- Pre-configured frequency inverters for easy setup
- Options available for nearly all demands

Contact Information

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General Specifications	ACU-ODU-AC...		remark
	-DS	-DE	
Frequency inverter max. power (each)	3kW	7.5kW	specify motor power at time of order
POL drive standard (230V AC) current max.	2A	2A	
Handheld interface incl. display of angles and beacon level	✓	✓	interface suits sat-nms LCPH, sat-nms LCPHD-PT and Vertex PMCU
Angle encoder interfaces for Azimuth, Elevation, Polarization	✓	✓	Resolver / SSI / Potentiometer specify configuration at time of order
ACU-ODM Ethernet interface	✓	✓	RJ45, 10/100-Base-T, Via HTTP GET Requests and SNMP
Beacon receiver interface	0-10V/ UDP	0-10V/ UDP	UDP interface recommended for sat-nms LBRX beacon receiver
Antenna stop switch mounted to the cabinet	✓	✓	
Available Options (not included in standard version)			options to be ordered separately
230V Power Outlet IP66 with separate RCD	✓*	✓	
115V POL drive option (1,3A max.)	✓*	✓	
frequency inverter for POL axis	n/a	✓	
cooling fan (IP54), incl. thermostat	✓*	✓	
cooling fan (IP56), incl. thermostat	✓*	✓	recommended when rain together with strong wind is expected
Ethernet switch 5-port	✓*	✓	switch with optical interface on request
serial interface for external 19" rack mount controller ' sat-nms RCP19'	✓*	✓	
Sunshield (front or rear)	✓	✓	strongly recommended when cabinet is exposed to sun radiation
Mounting kit for basement mounting	✓	✓	
cabinet made from stainless steel	n/a	✓	
mechanical interface to install mounting plate into an existing cabinet	on request	on request	
Storage tray for Handheld	✓	✓	
Motor-, Encoder-, Limit switch-cabling (project specific)	on request	on request	SatService as a system integrator is able to realize turn-key projects for refurbishment of your existing antenna or installation of a new antenna!
Mechanical Adapters to replace existing Encoders by state-of-the art digital encoders (project specific)	on request	on request	We also deliver and set up complete receive- and transmit-Systems including optical signal transmission to realize your new satellite ground station.
On-Site integration and setup (project specific)	on request	on request	

* '-DS' version provides possibility for 2 electrical options max.!

Electrical and Mechanical Specification, Environmental Conditions

	ACU-ODU-AC-DS	ACU-ODU-AC-DE
Supply Voltage Mains	3x400V AC (4mm ² /AWG10 max.)	3x400V AC (10mm ² /AWG8 max.)
Supply Voltage UPS	1x 230V AC (4mm ² /AWG10 max.)	1x 230V AC (4mm ² /AWG10 max.)
limit switch interfaces	NC dry contact or inductive switch with 24VDC wet contact NC/PNP	NC dry contact or inductive switch with 24VDC wet contact NC/PNP
external Antenna Stop interface	NC dry contact	NC dry contact
Temperature Range	-20° to 35° C (up to 45° with optional cooling fan)	-20° to 35° C (up to 45° with optional cooling fan)
Humidity	Up to 90% non-condensing	Up to 90% non-condensing
Cabinet size WxHxD (size in brackets includes standard rain cover and Antenna Stop switch)	600x600x250 mm (650x632x280mm)	760x760x300 mm (820x790x336mm)
Mounting hole pattern	560x560mm (4xø8.7mm)	720x720xmm (4xø8.7mm)
Weight	~42kg (weight without options)	~58...65kg depending on frequency inverter type (weight without options)