# *sat-nms* LCPHD-PT   ACU Local Maintenance Controller

Normally, you operate the **sat-nms** ACU-ODU with a web browser via the integrated web server of the outdoor unit. For maintenance purposes, if the environmental outdoor conditions are adverse and you do not want to open your notebook at the antenna or if you are just installing the antenna and you have not yet configured the antenna controller, then our **sat-nms** LCPHD-PT is exactly what you need. You can drive the antenna in all three axes without any other software or PC, just by pushing buttons. Compared to **sat-nms** LCPH Handheld, the **sat-nms** LCPHD-PT provides an additional display showing Angle values of all three axes and additionally the beacon level.

**The *sat-nms* LCPHD-PT is pin-, connector- and function compatible to the formerly Vertex PMCU Handheld.**

By ordering a **sat-nms** LCPHD-PT together with your new **sat-nms** ACU-ODU-ACD cabinet, all required interfaces will be installed. For already existing **sat-nms** ACU-ODU devices, SatService provides an upgrade kit consisting of a DIN rail module as well as a cable kit that has to be exchanged against some existing cables around the **sat-nms** ACU-ODM-D Module. The upgrade is easy to perform and can be done by your own well-trained service personnel.
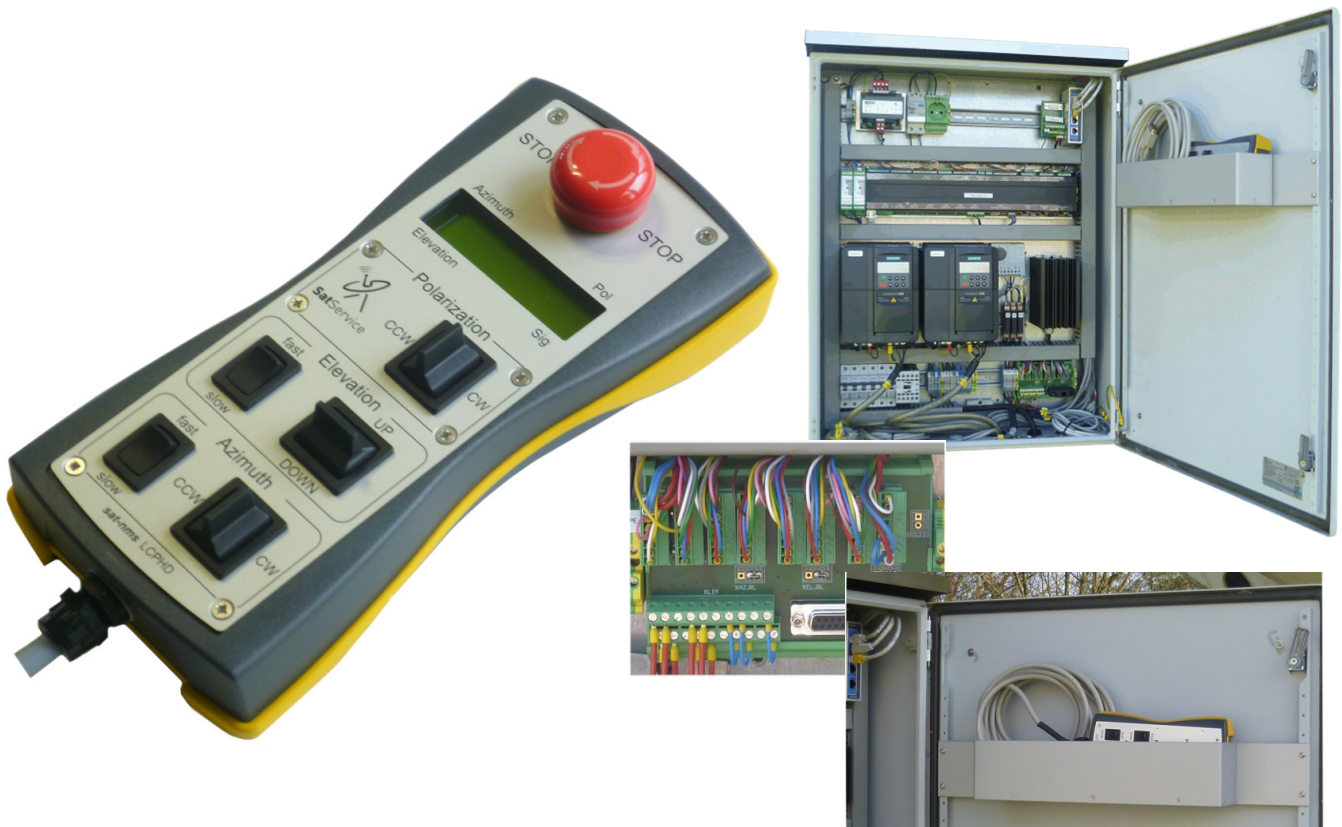


### Key Features

- Compatible to formerly Vertex PMCU
- Easy Antenna movement without Notebook
- Angle value and beacon level display
- Commands drive signal directly to frequency inverter
- Limit switches still active even without running **sat-nms** ACU-ODM
- Upgrade kit for existing **sat-nms** ACU-ODU available

### Contact Information

SatService
Gesellschaft für Kommunikationssysteme mbH

Hardstrasse 9, D-78256 Steisslingen, Germany
Phone    +49 7738 99791 10,
Fax       +49 7738 99791 99
E-Mail    sales@satservicegmbh.de

**www.satnms.com, www.satservicegmbh.de**

## Functional description:

| item | Function/description |
|---|---|
| STOP Button | interrupts Motor power supply<br><br>applies brakes if installed<br><br>Once triggered, button has to be released by turning as illustrated by arrows on the button. |
| Display | labelling on frontpanel above/below value shows corresponding values:<br><br>Azimuth: Azimuth encoder value in °<br><br>Elevation: Elevation encoder value in °<br><br>Pol: Polarization encoder value in °<br><br>Sig: beacon signal in dBm provided by ACU-ODM-D<br><br>**Note:** If your *sat-nms* ACU-ODM is not set up or connected yet, the antenna might nevertheless be moved by *sat-nms* LCPHD-PT even without angle display! |
| Polarization CCW/CW switch | drives Polarization drive of your Antenna immediately in CW/CWW direction |
| Elevation UP/DOWN switch | drives Elevation drive of your Antenna immediately UP/DOWN |
| Elevation fast/slow switch | defines Antenna Elevation speed by pressing "Elevation UP/DOWN" buttons |
| Azimuth CW/CCW switch | drives Azimuth drive of your Antenna immediately in CW/CCW direction |
| Azimuth fast/slow switch | defines Antenna Azimuth speed by pressing "Azimuth CW/CCW" buttons |

## Pin description:

| Pin | description | Pin | description | Pin | description |
|---|---|---|---|---|---|
| A | stop loop in | H | POL CCW | R | Data RX+ |
| B | stop loop return | J | AZ slew | S | Data RX- |
| C | n.c. | K | EL slew | T | Shield |
| D | n.c. | L | EL UP | X | VDC COM |
| E | AZ/EL COM | M | EL DOWN | W | +24VDC |
| F | POL COM | N | AZ CW | | |
| G | POL CW | P | AZ CCW | | |

**Electrical and Mechanical Specification, Environmental Conditions**

| | |
|---|---|
| Supply Voltage | 24V DC, provided by ACU-ODU |
| Temperature Range | 5° to 50° C |
| Humidity | Up to 90% non-condensing.<br>**This unit is not watertight, do not leave outdoor without cover!** |
| Size | 210x105x55mm(without cable fitting) |
| Weight | approx. 800g (including cable) |
| cable length | 5m |
| connector type | MS3116J16-23PW |