

**SENCITY® SC Omni VPol Omni 380-400, 7.5dBi**

K862748

**Properties**

- Vertical polarized omni-directional high gain antenna
- Frequency range from 380 to 400 MHz
- The antenna is providing a gain of 7.5 dBi



| Electrical data     |                     |
|---------------------|---------------------|
|                     | Band 1              |
| Frequency           | 380 MHz ... 400 MHz |
| Impedance           | 50 $\Omega$         |
| VSWR                | 1.5                 |
| Gain                | 7.5 dBi             |
| Ambient Temperature | 50 °C               |
| Composite Power max | 500 W               |

| Electrical remarks |                                                      |
|--------------------|------------------------------------------------------|
| Remarks            | Intermodulation IM3 < -150 dBc ( 2 x 43 dBm carrier) |

| Ports        |                     |
|--------------|---------------------|
|              | Port 1              |
| Port name    | Tetra               |
| Connector    | 7/16, jack (female) |
| Polarization | vertical            |
| DC grounded  | Yes                 |

| Connections |                                     |
|-------------|-------------------------------------|
|             | Port 1                              |
| Port name   | Tetra                               |
| Band 1      | <input checked="" type="checkbox"/> |

| Mechanical data |                                                    |
|-----------------|----------------------------------------------------|
| Weight          | 8 kg                                               |
| Dimensions      | 2840 mm x 112 mm x 148 mm (Height x Width x Depth) |
| Windload        | front: 200 N at 150 km/h                           |

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| Mechanical data |                                                                                                                                                                                                                                               |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Remarks         | Material:                                                                                                                                                                                                                                     |
|                 | Radiator: Copper and brass. Radome: Fiberglass, color: Grey.                                                                                                                                                                                  |
|                 | Base: Weather-proof aluminum.                                                                                                                                                                                                                 |
|                 | Mounting kit, screws and nuts: Stainless steel.                                                                                                                                                                                               |
|                 | Mounting: The antenna can be attached laterally at the tip of a tubular mast of 50-94 mm diameter with two U-bolt brackets supplied with the antenna (connecting cable runs outside the mast).                                                |
|                 | Grounding: cross-section: 22 mm <sup>2</sup> copper                                                                                                                                                                                           |
|                 | Anti-static protection: All metal parts of the antenna as well as the supplied clamp attachments are grounded. The inner conductor is capacitively coupled                                                                                    |
|                 | Lightning protection: The antenna is designed to withstand a lightning current of up to 150 kA (impulse: 10/350 µs), according to IEC 62305 parts 1-4 and VDE 0855-300, and thereby fulfils the requirements of lightning protection class II |

| Material data                  |                        |
|--------------------------------|------------------------|
| Radome material                | Fiberglass             |
| Radome colour                  | Grey                   |
| Back plate/base plate material | Weather-proof aluminum |
| Back plate/base plate colour   | Grey                   |

| Environmental data        |         |
|---------------------------|---------|
| Environment (application) | Outdoor |

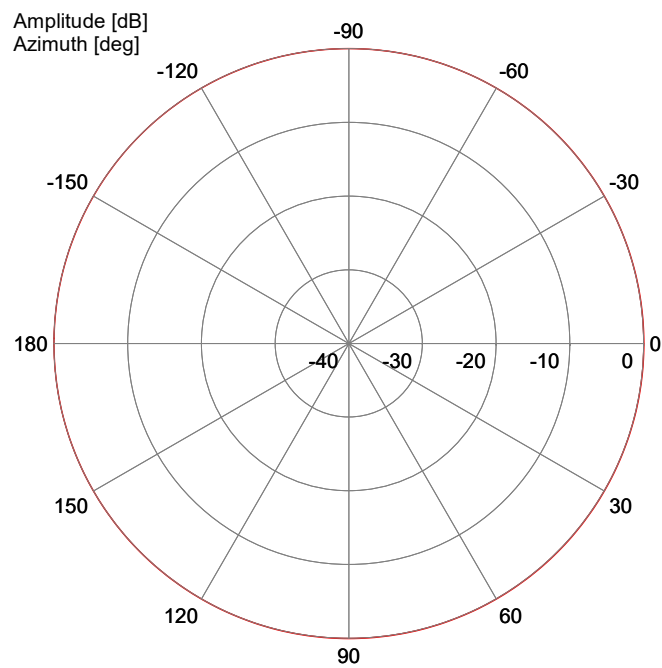
| Ordering information |                  |
|----------------------|------------------|
| Item number          | Item description |
| 84467245             | K862748          |

HUBER+SUHNER is certified by ISO 9001, ISO 14001, ISO 45001, IATF 16949, AS/EN 9100 and ISO/TS 22163-IRIS. Waiver: Facts and figures herein are for information only and do not represent any warranty of any kind.  
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# K862748

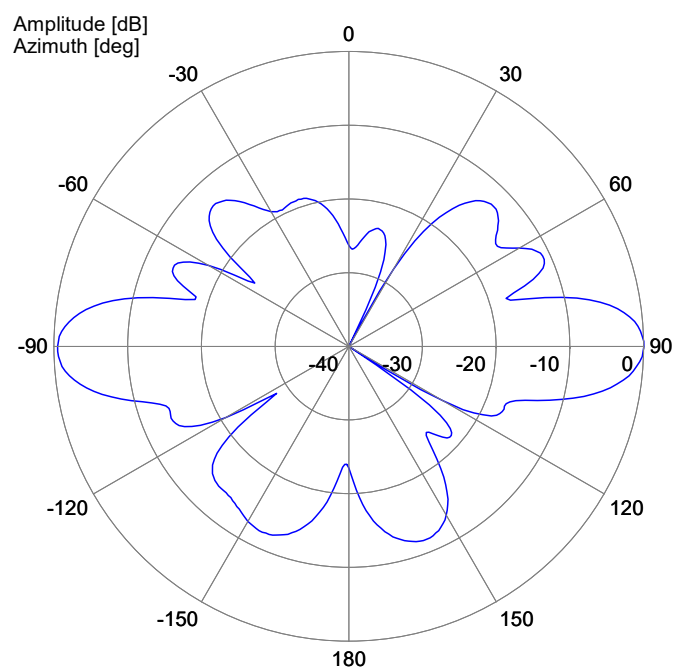
Article-No.: 84467245  
Port: Vertical  
Frequency: 390 MHz

**Radiation Pattern**



— Horizontal-Plane: Copolar

**Radiation Pattern**



— Vertical-Plane: Copolar

## Mounting Instruction



Keep away from catenary and high voltage lines.  
Be careful when working at height!  
Always secure ladders!  
Always tighten screws!

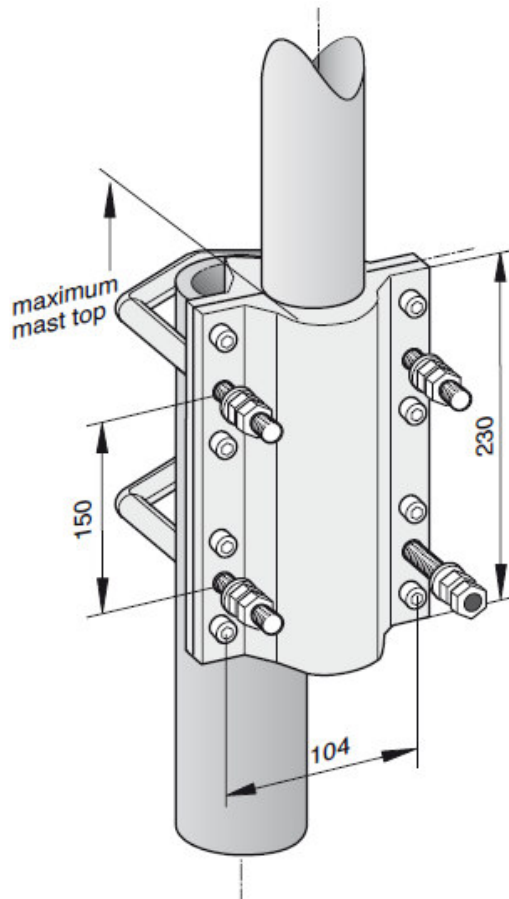


Avoid bringing the cover of the antenna into contact with acetone, gasoline or oil.

Dimensions in millimeter [mm]

Antennas: 84467192, 84467205, 84467245

### Mounting



The antenna can be attached laterally at the tip of a tubular mast of 50 – 94 mm diameter with two U-bolt brackets supplied with the antenna (connecting cable runs outside the mast).

### Grounding

All metal parts of the antenna as well as the supplied clamp attachment are grounded. The inner conductor is capacitively coupled.

## HUBER+SUHNER

HUBER+SUHNER is certified according to ISO 9001, ISO 14001

**Waiver:** It is exclusively in written agreements that we provide our customers with warrants and representations as to the technical specifications and/or the fitness for any particular purpose. The facts and figures contained herein are carefully compiled to the best of our knowledge, but they are intended for general information purposes only.

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# HUBER+SUHNER® ANTENNAS

## Security Instruction

### Disclaimer:

### Product data

All product data is non-binding and subject to change at any time.

### Product performance

The products of HUBER+SUHNER are tested in a laboratory environment against specific standards and test procedures and guaranteed to this level of performance. Any guarantee for exceptional applications or environmental conditions is subject to special request.

### ESD (Electrostatic Discharge) and Over-Voltage Protection

If a HUBER + SUHNER product is marked with an ESD label, protection against electrostatic discharge (ESD) and/or over-voltage is essential while handling the product:

- Always ground yourself before removing the protection cap from the connector and during installation.
- Always discharge the feeder cable before connecting it to the antenna.
- Do not exceed the supply voltage range specified in the product datasheet
- Observe the polarity of the power supply



All HUBER+SUHNER products are functionally tested prior to shipping. HUBER+SUHNER does not take responsibility for damage caused to the ESD-sensitive device due to improper handling during unpacking or installation.

HUBER+SUHNER is certified according to ISO 9001 and ISO 14001

#### WAIVER!

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