Crossed Log-Periodic Antenna R\&S ${ }^{\circledR}$ HL 024S2


## 1 GHz to 18 GHz

Log-periodic directional antenna consisting of R\&S ${ }^{\circledR}$ HL O24A1 and passive polarization switching network

## Features

- Horizontal, vertical, left-hand or right-hand circular polarization
- Wide frequency range

R Radiation pattern virtually independent of frequency

- Remote-controlled polarization selection with optional Control Unit R\&S ${ }^{\oplus}$ GB 016
- Can be used as a feed for the Directional Antennas R\&S® AC008 to R\&S ${ }^{\oplus}$ AC300


Brief description

The directional R\&S ${ }^{\oplus}$ HL O24S2 with crossed antenna elements can be used for waves with horizontal, vertical, left-hand or right-hand circular polarization.

It consists of the Antenna R\&S ${ }^{\ominus}$ HLO24A1 and a polarization switching network. Polarization can be selected by remote control using the R\&S ${ }^{\circledR}$ GB016, for instance.

The R\&S ${ }^{\circledR}$ HLO24S2 can also be used as a feed for the Directional Antennas R\&S ${ }^{\circledR}$ AC008 to R\&S ${ }^{\oplus}$ AC300.

## Specifications

| Frequency range | 1 GHz to 18 GHz |
| :--- | :--- |
| Polarization | circular (selectable) <br> ciral |
| Input impedance | $50 \Omega$ |
| VSWR |  |
| 1 GHz to 12 GHz | $\leq 2.5$ |
| 12 GHz to 18 GHz | $\leq 3$ |
| Gain (switching network |  |
| taken into account) | 4 dBi to 6 dBi |
| Circularity | typ. 2 dB |


| Connector | SMA female |
| :--- | :--- |
| Control connector | 10 -contact, round, male |
| Operating |  |
| temperature range | $-40^{\circ} \mathrm{C}$ to $+55^{\circ} \mathrm{C}$ |
| Max. wind speed | $180 \mathrm{~km} / \mathrm{h}$ (without ice deposit) |
| MTBF | $>150000 \mathrm{~h}$ |
| Dimensions (diameter $\times$ height) |  |
| With radome | approx. $210 \mathrm{~mm} \times 353 \mathrm{~mm}$ |
| Weight | approx. 1 kg |

Ordering information


Typical gain and power-handling capacity

| Recommended extras |  |  |
| :--- | :--- | :--- |
| Control Unit | R\&S ${ }^{\oplus}$ GB016 | 4056.7006 .02 |
| Control Cable, 10 m | R\&S ${ }^{\oplus}$ GB016Z1 | 4056.7270 .02 |
| Microwave Cable, 5 m | R\&S ${ }^{\oplus}$ AC008W2 | 0751.6931 .04 |
| Microwave Cable, 10 m | R\&S ${ }^{\oplus}$ AC008W2 | 0751.6931 .05 |




Typical radiation patterns in the E and H planes

