

Rosenheim, 01.06.2019

Information über gesellschaftsrechtliche Änderung Information about change in corporate legal status

Zum 1. Juni 2019 wurde das Geschäftsfeld "Broadcast" der KATHREIN SE (vormals KATHREIN-Werke KG) auf die KATHREIN Broadcast GmbH übertragen.

Die neuen Firmendaten lauten ab 01.06.2019 wie folgt:

**KATHREIN Broadcast GmbH
Ing.-Anton-Kathrein-Str. 1 - 7
83101 Rohrdorf, Deutschland**

**Steuer Nr.: 156/117/31113
UST-Ident-Nr.: DE 323 189 785
Handelsregister Traunstein: HRB 27745**

E-Mail: broadcast@kathrein.de
www.kathrein-bca.com

As of 1st June 2019, KATHREIN SE's (formerly KATHREIN-Werke KG) business unit "BROADCAST" has been transferred to KATHREIN Broadcast GmbH.

From 1st June 2019, the new company data are:

**KATHREIN Broadcast GmbH
Ing.-Anton-Kathrein-Str. 1 - 7
83101 Rohrdorf, Germany**

**Tax Payer's ID No.: 156/117/31113
VAT Reg. No.: DE 323 189 785
Commercial Register Traunstein: HRB 27745**

E-Mail: broadcast@kathrein.de
www.kathrein-bca.com

K 72 20 4. .

Omnidirectional Antenna

470 – 862 MHz

- Broadband omnidirectional antenna

Type No. / Order No.	750 10180
Input	3 1/8" EIA flange
Frequency range	470 – 862 MHz
VSWR	< 1.1
Gain (ref. to λ /dipole)	12 dB at mid-band
Vertical 3 dB beamwidth	4° at mid-band
Impedance	50 Ω
Polarization	Horizontal
Max. power	15 kW (at 40 °C ambient temperature)
Weight	650 kg
Windload (at 160 km/h)	4.5 kN
Max. wind velocity	225 km/h
Height	Approx. 7.5 m

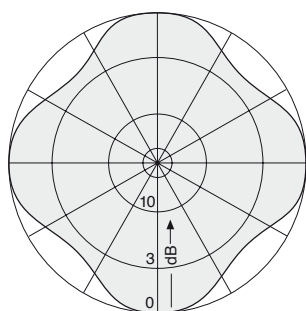
Technical data without optional accessories.

- Material:** Omnidirectional antenna in protective fiberglass radome with a diameter of 520 mm.
Radome color: e.g. light grey (RAL 7035) or orange (RAL 2009), other colors on request.
Please specify when ordering.
Flange: Hot-dip galvanized steel.
- Mounting:** On top of existing structure by means of an adapter. Mounting dimensions upon request.
- Grounding:** Via mounting parts.
- Optional accessories:** Hook-in ladder (Type No. 753 10278)
Aviation warning light IQL85 (Type No. 753 10279)
- Notes:** Ladder has to be removed before operation!
It's not allowed to climb up the antenna during operation!

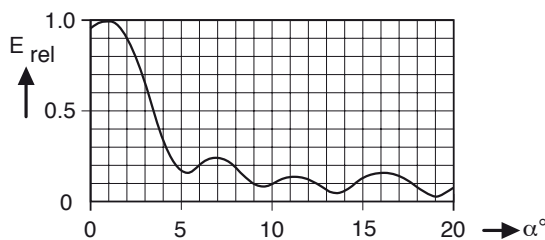


Picture shows antenna with optional accessories

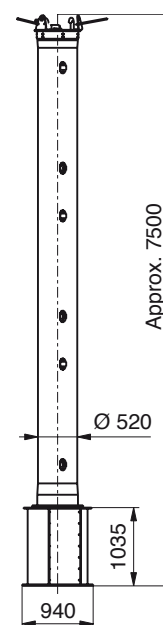
Radiation Patterns (at mid-band)



Horizontal Radiation Pattern



Typical Vertical Radiation Pattern



All dimensions in mm without optional accessories

936.3437 Subject to alteration.

Mounting notes:

Cylindrical structures can show crosswind response due to vortex excitations.

According to EN 1991-1-4 or EN 1993-3-1 fatigue calculations are required for structures having cylindrical parts. So a fatigue analysis must be carried out by a stress engineer for the supporting structure (mast) with the antenna.

Antenna 750 10180

length of cylindrical part: 6.3 m
diameter of cylinder: 0.52 m

The antenna can be considered as a cantilever with uniform mass distribution and an additional mass at the bottom (flange level) of the antenna:

length: 7.5 m
stiffness E-I: $6 \cdot 10^6 \text{ Nm}^2$
mass per length: 30 kg/m
mass at bottom: 420 kg
logarithmic decrement of damping: 0.07

The antenna is not fatigue critical in accordance with EN 1993-1-9.

Fixing: 12x M20 grade 8.8, tightening torque 300 Nm