

# MU 4-Z/...

## Colinear 4 dB Mobile Antenna for the 450 MHz Band



### DESCRIPTION:

- ★ 4 dB mobile antenna series with colinear, stainless steel whip with toggle joint.
- ★ Models with Z-mount or MG-magnetic mount.
- ★ Choice between Z-mount with FME-connection (supplied without cable) or ZP4-mount with factory fitted 4 m cable terminated with FME-connector.
- ★ MG-models provided with FME-connection directly on the mount (without cable).
- ★ Z-type models available in bright or black chromed versions.  
MG-models available in bright polished only.

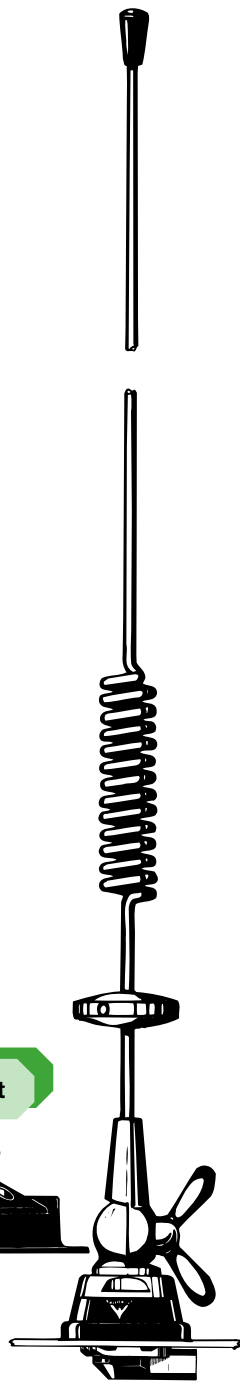
### SPECIFICATIONS:

ELECTRICAL	
ANTENNA TYPE	Colinear stainless steel mobile whip antenna
FREQUENCY	Models within 380–470 MHz
IMPEDANCE	Nom. 50 Ω
POLARISATION	Vertical
GAIN	4 dB (acc. to EIA RS-329)
BANDWIDTH	> 15 MHz at SWR ≤ 1.5
SWR	≤ 1.3 at f. res.
MAX. POWER	100 watt
MECHANICAL	
MATERIALS	Whip: Stainless steel and brass, bright polished/chromed or black-chromed Mount: Chromed brass (bright or black) Environment-proof plastics Stainless steel
RECOMMENDED INSTALLATION TORQUE	7.5 ± 1 Nm
COLOUR	Bright or black (see above)
HEIGHT	Approx. 59 cm (dep. on freq.)
WEIGHT	Z-version : Approx: 230 g ZP4-version : Approx: 370 g MG-version : Approx: 930 g
MOUNTING	21 mm dia. hole

To help selecting the correct model for a specific cellular network, please consult the survey of cellular network-frequencies under USEFUL DATA in our catalogues.

Whips from the Z/ZP4 mounts and the MG-mount are **not** compatible.

Hat screw option (Z-/ZP4-type models only): By adding a K to the antenna designation the antenna is delivered with hat screw and key instead of wing screw.



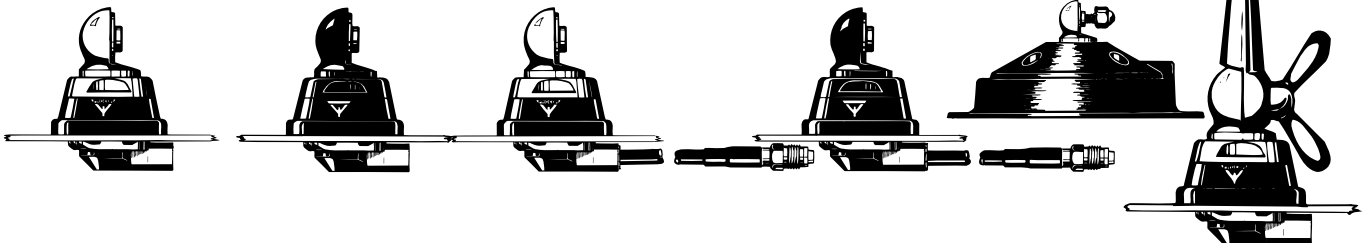
Z-Mount

BZ-Mount

ZP4-Mount

BZP4-Mount

MG-Mount



### ORDERING DESIGNATIONS:

MOUNT VERSION	Z-mount with FME BRIGHT	BZ-mount with FME BLACK	ZP4-mount with 4 m cable BRIGHT	BZP4-mount with 4 m cable BLACK	MG-mount with FME
TUNING RANGE	Models for general application – tunable with adjustment disc:				
380...410 MHz	MU 4-Z/s	MU 4-BZ/s	MU 4-ZP4/s	MU 4-BZP4/s	MU 4-MG/s
406...430 MHz	MU 4-Z/f	MU 4-BZ/f	MU 4-ZP4/f	MU 4-BZP4/f	MU 4-MG/f
420...450 MHz	MU 4-Z/l	MU 4-BZ/l	MU 4-ZP4/l	MU 4-BZP4/l	MU 4-MG/l
440...470 MHz	MU 4-Z/h	MU 4-BZ/h	MU 4-ZP4/h	MU 4-BZP4/h	MU 4-MG/h
FREQUENCY RANGE	Models for cellular systems – pretuned, without adjustment disc:				
414–430 MHz	MU 4-Z/CEL4	MU 4-BZ/CEL4	MU 4-ZP4/CEL4	MU 4-BZP4/CEL4	MU 4-MG/CEL4
425–440 MHz	MU 4-Z/CEL3	MU 4-BZ/CEL3	MU 4-ZP4/CEL3	MU 4-BZP4/CEL3	MU 4-MG/CEL3
440–455 MHz	MU 4-Z/CEL2	MU 4-BZ/CEL2	MU 4-ZP4/CEL2	MU 4-BZP4/CEL2	MU 4-MG/CEL2
450–470 MHz	MU 4-Z/CEL1	MU 4-BZ/CEL1	MU 4-ZP4/CEL1	MU 4-BZP4/CEL1	MU 4-MG/CEL1

PROCOM A/S reserve the right to amend specifications without prior notice.

# MU 4-Z/... Installation

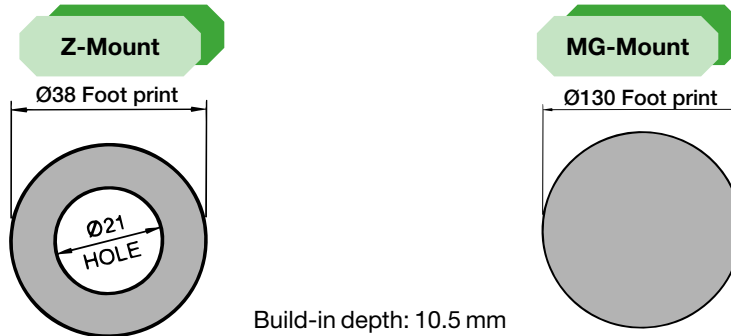


The antenna whip comprises a  $1/4 \lambda$  section, a phase shifting coil, and a  $1/2 \lambda$  section. The whip is fastened to the mount by means of our standard ball joint and wing screw system. The adjustable ball joint ensures that the whip can always be mounted in a vertical position independent of the angle of the installation spot.

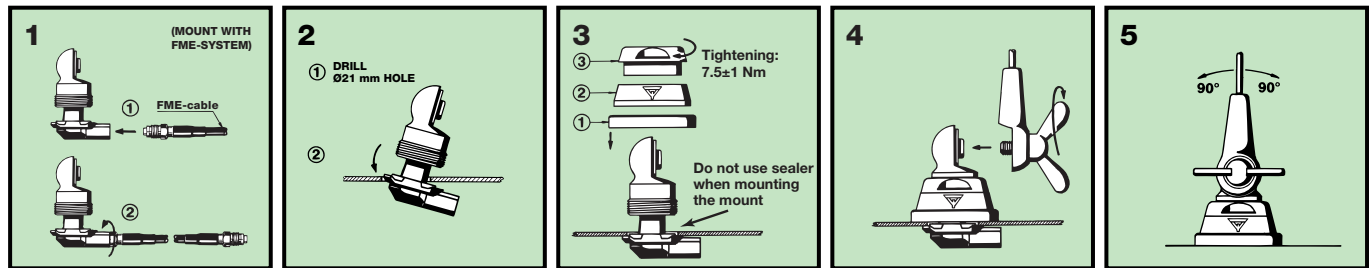
The Z-mount is particularly well suited for mounting on car roofs because of its ability to be installed exclusively with access from the outside. However, the antenna can be installed anywhere on the car, as the Z-mount is equally well suited for mounting on e.g. trunk or wing.

The "MG"-mount antennas are provided with a large-diameter, thoroughly magnetized permanent ring magnet with an extraordinarily high attaching effect. A silicone layer applied to the whole contact surface protects the car roof and ensures maximum friction. Please note that the whips from the Z/ZP4-mounts and the whips from the MG-mount are not compatible.

## 1. INSTALLATION DIMENSIONS:

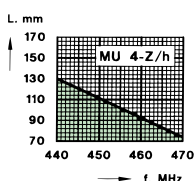
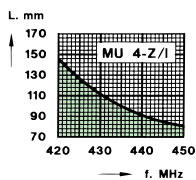
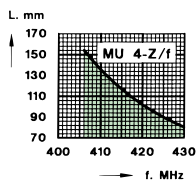
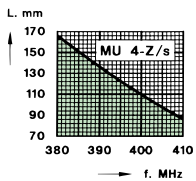


## 2. INSTALLATION STEPS:

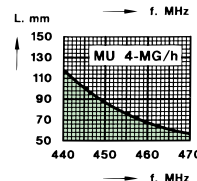
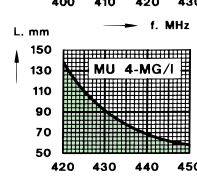
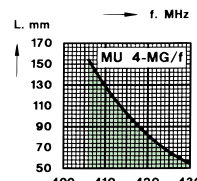
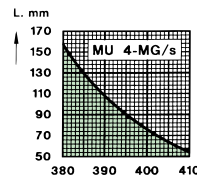


## 3. TUNING:

Z- and ZP4-models:



MG-models:



### PLEASE NOTE:

For safety reasons:  
When using the MU 4-MG/..., car speed must not exceed 140 km/h.