

# Technical Data

Directional GSM 900/1800/1900 TNC, IP66, Mast mount



For all those installations, where the GPRS RTU is mounted in areas with interference or objects between the RTU and the GSM tower, this directional antenna will help to improve the situation.

Please be aware that even with a directional antenna the transmission distances cannot be extended beyond the range as defined by the timeout of the GPRS standard! This antenna is meant to improve reception in difficult terrain, such as stations surrounded by trees. Make sure that the antenna faces the GSM tower it needs to talk to, as the transmission pattern is well focussed!

This kit comes complete with a mast mounting bracket, a short piece of cable with a TNC connector mounted, perfectly matching the TNC connector on your RTU.

Operational bands	890 - 960, 1710 - 2170 MHz GSM900, GSM1800, PCS1900, 3G UMTS
VSWR	< 2,0:1
Gain isotropic	8dBi on GSM900 9dBi on GSM1800 and PCS1900 11dBi on 3G UMTS
Compared to 1/4 wave	6dBi on GSM900 7dBi on GSM1800 and PCS1900 9dBi on 3G UMTS
Polarisation	Vertical
Pattern	Directional
Impedance	50 Ohm
Max. input power	20W
Dimensions	160 x 142 x 50mm (H x W x D)
Weight	0,4kg

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Operating temperature	-40°C ... + 80°C
Material	Engineering plastic
Colour	White
Mounting	on poles with bracket bracket height 135mm, offset 180mm
Cable length	0,5 m
Connector	TNC
Wind load	63N at 180km/h
Wind surface	0,02m <sup>2</sup>

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We reserve the right to make technical changes and improvements without notice. V-20/04/2024  
ADCON Telemetry, Austria

