

Low Profile Antenna **GLONASS 1890 LP/S/FAKRA 3.0**

Erz-Nr. / Ord. code

602 434-001

GLONASS / GPS / CELLULAR

- Kombinationsantenne für Satellitenempfang (GLONASS **und** GPS) für Telematiklösungen (z.B. Flottenmanagement, Fahrzeugortung oder Notrufsysteme)
- GSM Multiband
- Montage auf unterschiedlichen Oberflächen (z.B. Kunststoff, Metall ...)
- *Combination antenna for satellite reception (GLONASS **and** GPS) for telematics applications (e.g. fleet management, vehicle location or e-call systems)*
- *Cellular multiband coverage*
- *Mounting on any surface (e.g. plastics, metal ...)*



Änderungen vorbehalten / *Subject to alterations*

Technische Daten / *Technical data*

Abmessungen / <i>Dimensions</i>	124 mm x 80 mm x 21 mm / 4.9 x 3.1 x 0.8 in.	
Gewicht / <i>Weight</i>	340 g / 12 oz.	
Temperaturbereich / <i>Temperature range</i>	-40 - +85°C / -40 - +185 °F	
Schutzklasse / <i>Protection class</i>	IP6K9K (acc. ISO 20653)	
GLONASS / GPS		
Empfangsfrequenz GPS / <i>Receive frequency GPS</i>	1575.42 ± 1.023 MHz	
Empfangsfrequenz GLONASS / <i>Receive frequency GLONASS</i>	1602.0 – 1614.94 MHz	
Mittelfrequenz / <i>Center frequency</i>	1595.0 ± 5 MHz	
Polarisation / <i>Polarization</i>	rechtshändig zirkular / <i>right hand circular</i>	
Gewinn / <i>Gain</i>	4,5 dBic ¹⁾	
Betriebsspannung / <i>Voltage supply</i>	3 - 5,5 VDC (ferngespeist, <i>remote-fed</i>)	
Stromaufnahme / <i>Current consumption</i>	typ.	29 mA @ 3,3 ± 0,3 V
Verstärkung / <i>Amplification (LNA)</i>	20 ± 2 dB @ 3,3 ± 0,3 V	
Bandbreite / <i>Bandwidth (LNA)</i>	100 MHz	
Impedanz / <i>Impedance (LNA)</i>	50 Ohm	
VSWR	≤ 1,5 : 1	
Rauschmaß / <i>Noise figure (LNA)</i>	≤ 3,0 dB	
CELLULAR		
Frequenzbereich / <i>Frequency range</i>	AMPS/GSM 850:	824 - 894 MHz
	GSM 900:	880 - 960 MHz
	GSM 1800:	1710 - 1880 MHz
	GSM 1900:	1850 - 1990 MHz
	UMTS:	1920 - 2170 MHz
Impedanz / <i>Impedance</i>	50 Ohm	
VSWR	≤ 3,0	
Gewinn / <i>Gain</i>	0 dBi ²⁾	
Polarisation / <i>Polarization</i>	linear, vertikal / <i>linear, vertical</i>	
Belastbarkeit / <i>Load capacity</i>	max.	10 W gepulst, <i>pulsed acc. GSM standard</i>
Diagnose / <i>Diagnostic</i>	Resistor 10 kOhm	

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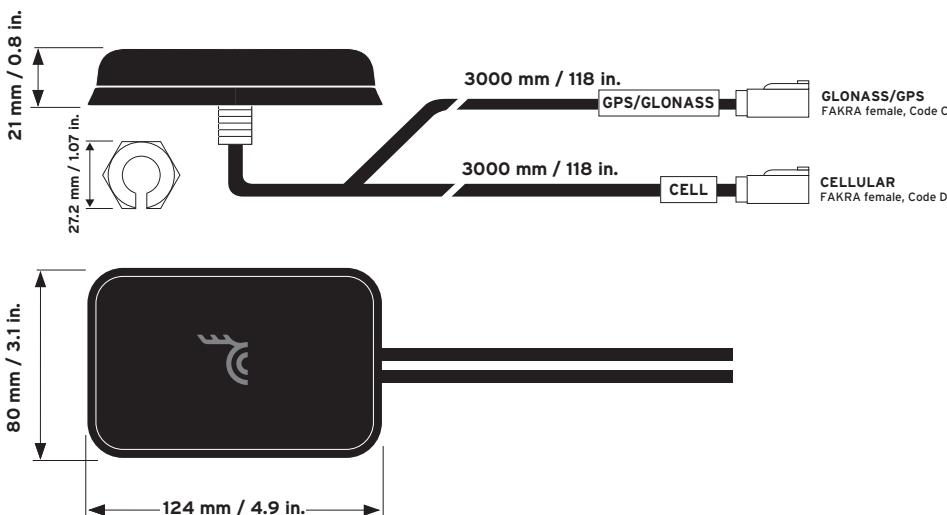
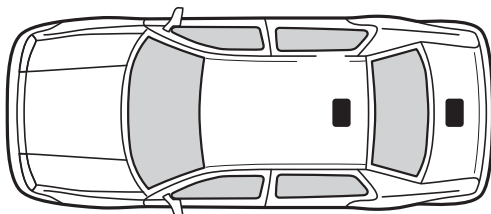
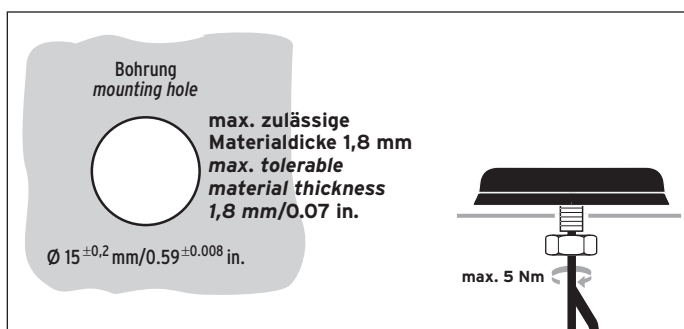
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Kabel und Anschluss / Cable and Connector (RG 174)

Kabellänge / <i>Cable length</i> ³⁾	GLONASS/GPS:	3000 +30 mm / 118 +1.2 in.
	CELLULAR:	3000 +30 mm / 118 +1.2 in.
Anschluss / <i>Connector</i> ³⁾	GLONASS/GPS:	FAKRA female, Code C blue
	CELLULAR:	FAKRA female, Code D bordeaux

 1) dBic: gemessen gegenüber Isotropen-Strahler, zirkulare Polarisation / *referenced to an isotropic radiator, circular polarization*

 2) dBi: gemessen gegenüber Isotropen-Strahler / *referenced to an isotropic radiator*

 3) andere Kabellängen und Stecker auf Anfrage / *other cable length and connectors on request*

Montage / Installation

 Optimaler Einbauort /
Recommended place of installation


Datenblatt / Datasheet

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Montage auf Metallplatte /
Installation on groundplane

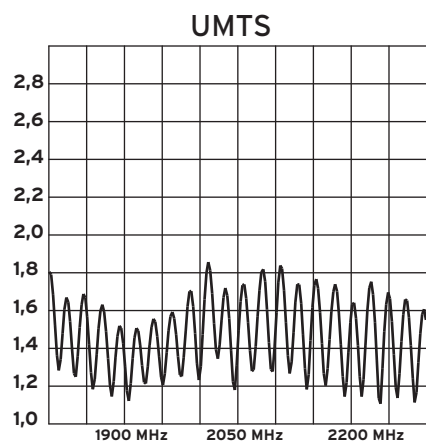
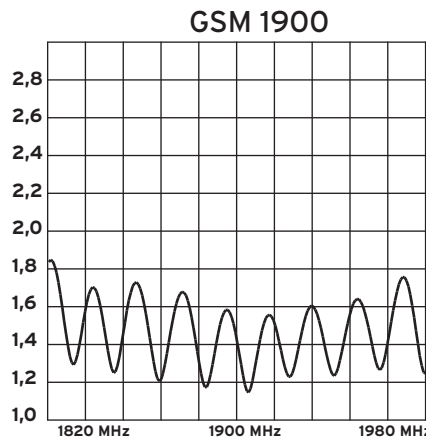
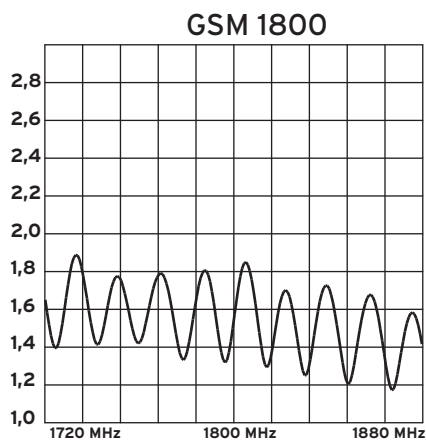
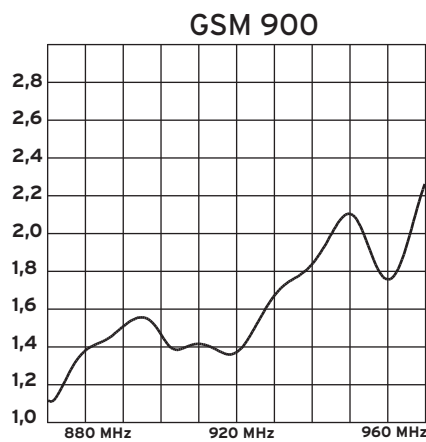
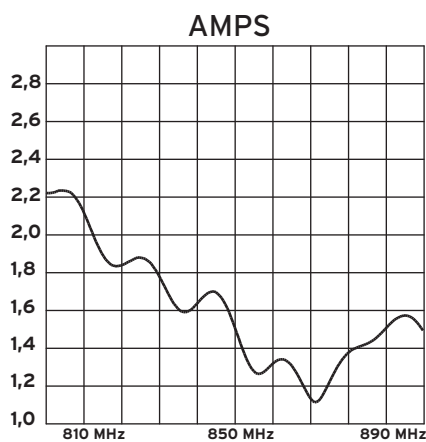
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Antennendiagramme
Antenna diagrams

Typisches VSWR / Typical VSWR



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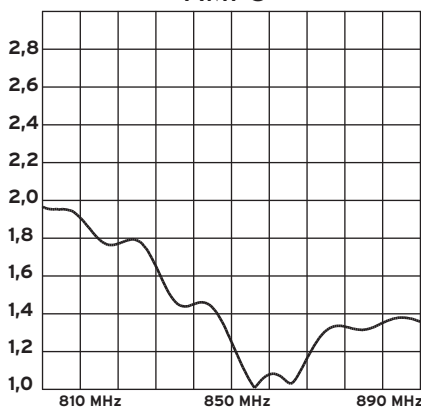
Montage auf nicht leitendem Untergrund /
Installation on non conductable plane

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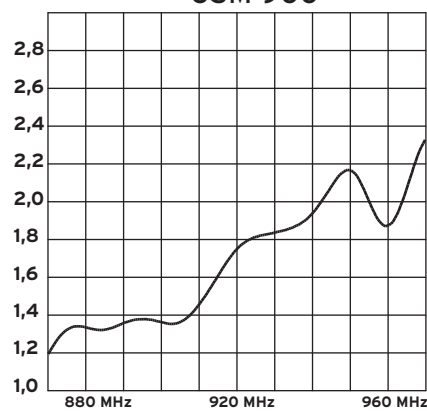
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Antenna diagrams

Typisches VSWR / Typical VSWR

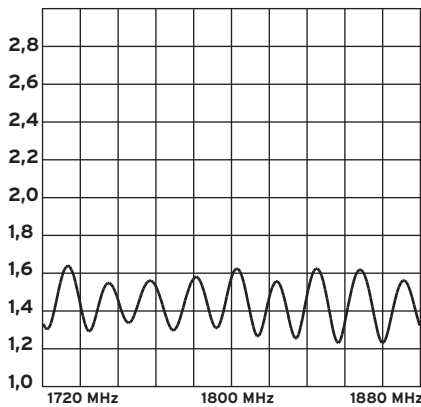
AMPS



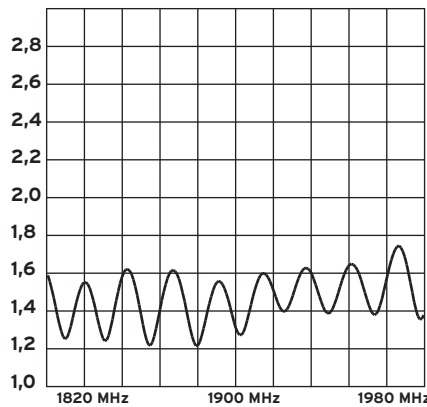
GSM 900



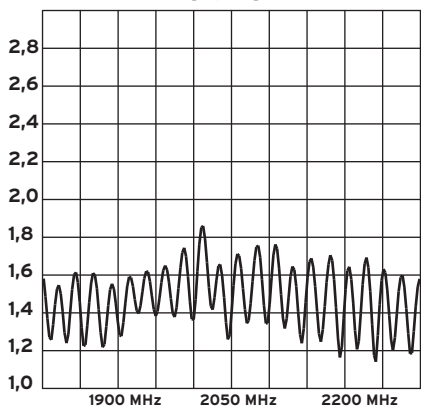
GSM 1800



GSM 1900



UMTS



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Montage zwischen 2 Metallstreben /
Installation between 2 metal bars

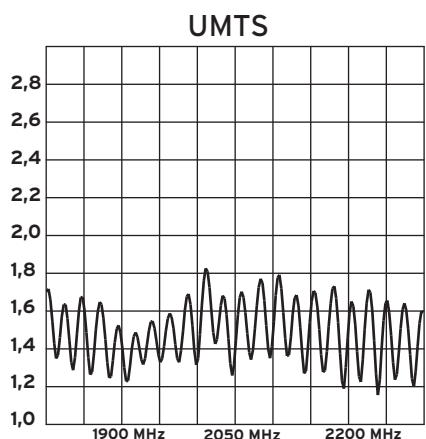
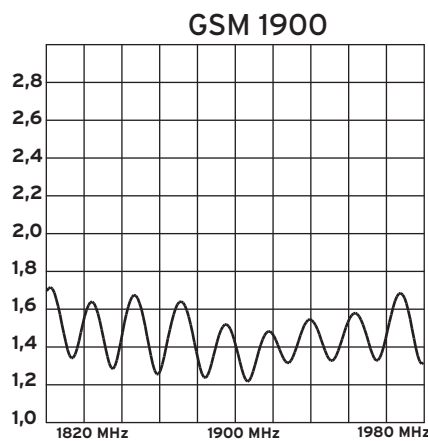
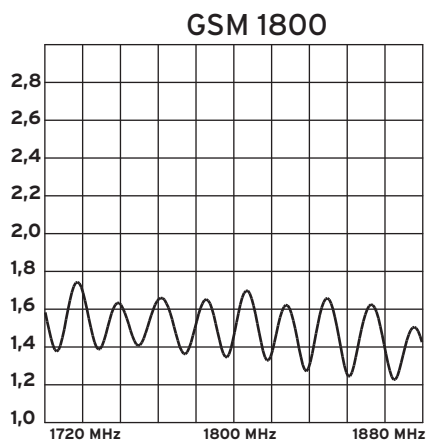
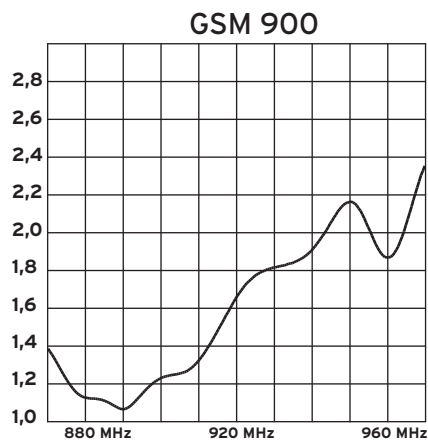
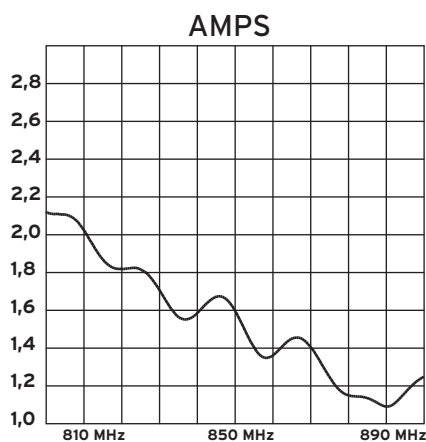
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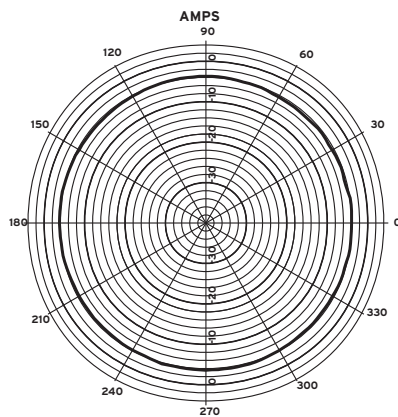
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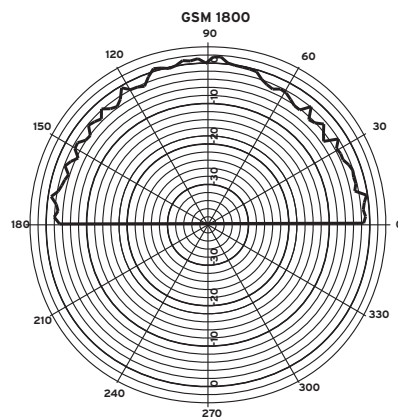
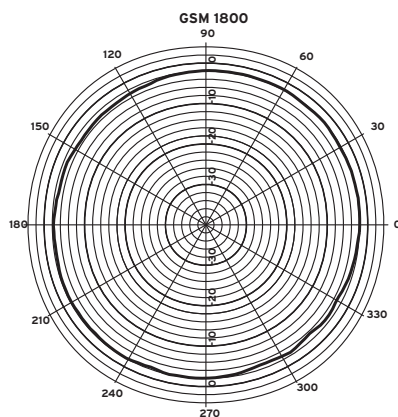
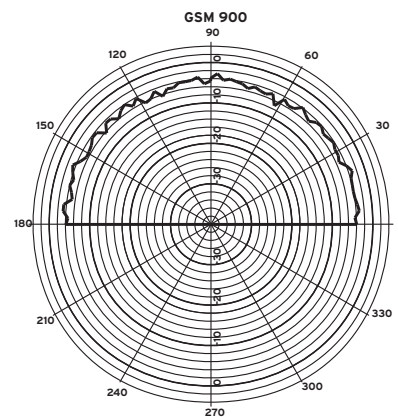
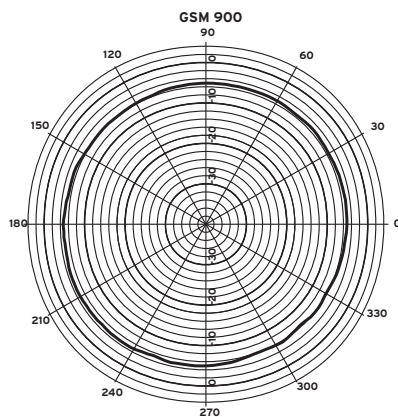
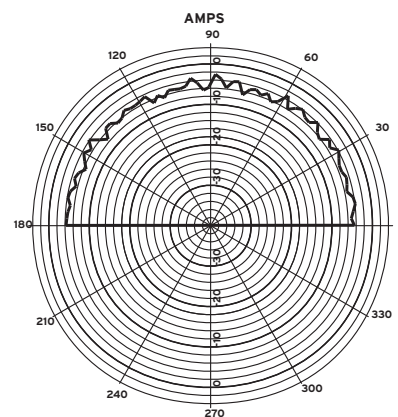
Antennendiagramme Antenna diagrams

Typisches Strahlungsdiagramm / Typical radiation pattern

horizontal / Azimuth



vertikal / Elevation



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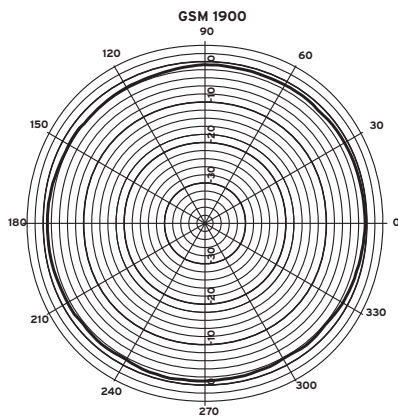
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horizontal / *Azimuth*



vertikal / *Elevation*

