

## GM-48W

## GNSS Receiver RS-232

### Features and Benefits

- GPS/GLONASS/QZSS/SBAS
- SBAS incl. WAAS/EGNOS/MSAS
- Low-profile housing
- IP67 Waterproof
- RS-232 Data out
- Low power requirement
- Magnetic mounting



### General

The GM-48W is a modern, versatile receiver suitable for a variety of applications:

- Vehicle navigation
- Marine GPS
- Asset tracking (tracking of operating resources and goods)
- Monitoring systems

SPECIFICATIONS		
<b>Mechanical</b>		
Construction:	High-impact Plastic	
Dimensions:	56mm Diameter x 21,5mm high	
Weight:	80g (without cable)	
Mounting:	Magnetic	
<b>HF-Element</b>		
Band	<b>GPS L1</b>	<b>GLONASS</b>
Median frequency:	1575,42 MHz	1602 MHz
Efficiency:	39,99%	30,83%
Average gain:	-3,98 dBi	-5,11 dBi
Maximum gain:	1,81 dBi	1,08 dBi
Polarization:	RHCP (Right Hand Circular Polarisation)	
Output impedance:	50 ohm	
<b>Communications</b>		
Protocol:	NMEA 0183 V4.0	
Interface:	RS-232	
Sentences (adjustable):	GGA, GLL, GSA, GSV, RMC, VTG	
Update rate:	1s	
Baud rate:	9600	
<b>Elektrical</b>		
Supply voltage:	5V	<b>(8-35V Option)</b>
Current:	75 mA typical	42 mA typical @ 12VDC
<b>Receiver Performance</b>		
Chipset:	uBLOX	
Type:	GPS L1C/A, GLONASS L1OF, SBAS L1C/A, QZSS L1C/A	
Channels:	72 parallel	
Sensitivity:	-164dBm	
SBAS:	WAAS, EGNOS, MSAS	
TTFF:	Warmstart: 1s typ.      Kaltstart 26s typ.	
Positional accuracy:	2.5m (50% CEP)	
Speed:	0.05 m/s accuracy	
<b>Environmental</b>		
Operating temperature:	-30°C ~ +80°C	
Storage temperature:	-40°C ~ +85°C	
Protection:	IPX7 Waterproof	

Errors and omissions excepted.