

## Active Receiving Antenna for the 1575 MHz NAVSTAR GPS Satellite Navigational System for Landmobile and Maritime Use

### DESCRIPTION

- > Flat-pack GPS-antenna for temporary or fixed installations.
- > Full hemispherical coverage.
- > Built-in high gain, low noise amplifier.
- > Right-hand circular polarization (RHCP).
- > Magnet mount – ideal for mounting on e.g. roof of car or vessel.
- > 3 V - 5 V supply voltage.
- > DC supply via RF-connector.
- > Permanently attached 5 m RG 174 coaxial cable terminated with FME (female) connector.
- > Wide range of FME-accessories available.

### SPECIFICATIONS

Electrical	
Model	GPS 100 KT-FME
Frequency	1575 MHz
Antenna Type	Active patch antenna
Polarisation	Circular
Pattern Type	Hemispherical
Impedance	50 Ω
Axial Gain	27 dBi (typ.)
Cross Polar Attenuation	> 10 dB (typ.)
Selectivity	> 45 dB down @ ± 45 MHz
Mechanical	
Antenna Colour	Black
Connection(s)	FME(f)
Materials	Aluminium and ABS
Cable	5 m RG 174
Dimensions	Approx. 50 mm dia. / 2.0 in. dia.
Height	Approx. 15 mm / 0.59 in.
Weight	Approx. 0.13 kg / 0.29 lb.
GPS Antenna	
Gain (GPS Amplifier)	> 26 dB (typ.)
VSWR (GPS Amplifier)	< 2.0:1
Power Supply (GPS)	3 - 5 V DC
Current Consumption (GPS Amplifier)	Approx. 0.025 mA
Environmental	
Operating Temperature Range	-35 °C to +75 °C



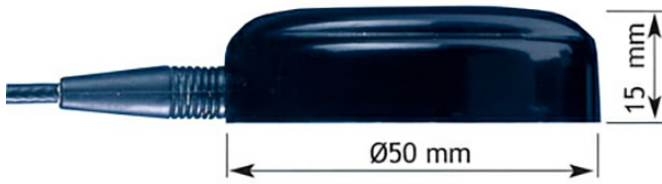
### ORDERING

Model	Product No.
GPS 100 KT-FME	112000022
Accessories FME-Cables	
1 m FME(f)	130000437
2 m FME(f)	130000447
3 m FME(f)	130000457
4 m FME(f)	130000466
5 m FME(f)	130000474
6 m FME(f)	130000483
1 m FME(f)-EFME(f)	130000526
2 m FME(f)-EFME(f)	130000527
3 m FME(f)-EFME(f)	130000528
4 m FME(f)-EFME(f)	130000529
5 m FME(f)-EFME(f)	130000530
6 m FME(f)-EFME(f)	130000531
4 m FME-white(f)	110000064
6 m FME-white(f)	110000066
12 m FME-white(f)	110000068
18 m FME-white(f)	110000069
Accessories FME-Connectors	
FME(f) - FME(f)	130000583
FME(m) - P(m) (Prolongation)	130000565
FME(m) - N(m)	130000571
FME(m) - FSMA (Female-SMA)	130000578
FME(m) - BNC(m)	130000566
FME(m) - TNC(m)	130000569
FME(m) - UHF(m)	130000572
FME(m) - MUHF(m) (Mini-UHF)	130000573
FME(m) - EMUHF(m) (Elbow-MUHF)	130000582
FME(m) - EBNC(m) (Elbow-BNC)	130000580
FME(m) - ETNC(m) (Elbow-TNC)	130000581
FME(m) - SMA(m)	130000577
MFME(m) - MSMC(m)	130001573

### FME-SYSTEM ACCESSORIES - NOTE

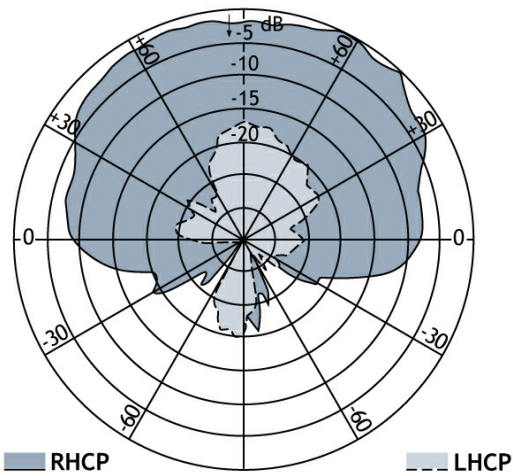
For further information about other types of FME-cables and FME-connectors, please compare the cable and connector data sheets under accessories.

## DIMENSIONS



Do not use sealer on rubber gasket or other places.

## VERTICAL RADIATION PATTERN



## EU AND UK DECLARATION OF CONFORMITY

Hereby Amphenol Procom declare that the product type GPS-100 KT-FME is in compliance with EU Directive 2014/53/EU and the UK Radio Equipment Regulations 2017 (S.I. 2017 No. 1206). The full text of the Declaration of Conformity is available at:

<https://amphenolprocom.com/images/shop/catalog/pdf-for-catalogues/Declaration-of-Conformity-GPS100KT.pdf>

