

Active Receiving Antenna for the 1575 MHz NAVSTAR  
GPS Satellite Navigational System for Landmobile a

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.
- 5 V supply voltage (3 V respectively 12 V available on request).
- DC supply via RF-connector.
- Permanently attached 5 m RG 174 coaxial cable terminated with FME (female) connector.
- Wide range of FME-accessories available.



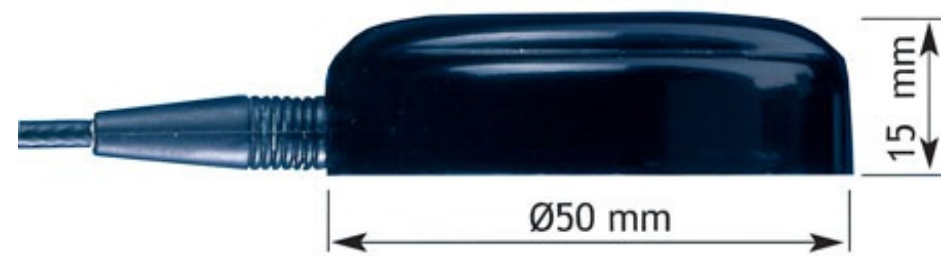
ORDERING

| Type           | Product No. |
|----------------|-------------|
| GPS 100 KT-FME | 112000022   |

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 at +/- 45 MHz |
| Mechanical                          |                            |
| Antenna Colour                      | Black                      |
| Connection(s)                       | FME(f)                     |
| Materials                           | Aluminium and ABS          |
| Cable                               | 5 m RG 174                 |
| Dimensions                          | 71 mm diameter             |
| Height                              | 15 mm / 0.59 in.           |
| Weight                              | 0.13 kg / 0.29 lb          |
| GPS Antenna                         |                            |
| Gain (GPS Amplifier)                | > 26 dB (typ.)             |
| VSWR (GPS Amplifier)                | < 2.0:1                    |
| Power Supply (GPS)                  | 5 ± 0.5 VDC                |
| Current Consumption (GPS Amplifier) | 0.025 mA                   |
| Environmental                       |                            |
| Operating Temperature Range         | -35°C to +75°C             |

ADDITIONAL DATA



Do not use sealer on rubber gasket or other places.

FME-SYSTEM ACCESSORIES

| FME-CABLES |                |
|------------|----------------|
| LENGTH     | TYPE NO.       |
| 1 m        | 1 m FME        |
| 2 m        | 2 m FME        |
| 3 m        | 3 m FME        |
| 4 m        | 4 m FME        |
| 5 m        | 5 m FME        |
| 6 m        | 6 m FME        |
| 4 m white  | 4 m FME-white  |
| 6 m white  | 6 m FME-white  |
| 12 m white | 12 m FME-white |
| 18 m white | 18 m FME-white |

| FME-CONNECTORS |           |
|----------------|-----------|
| CONNECTOR      | ORDER NO. |
| FME-FME        | FME-FME   |
| Prolongation   | FMEP      |
| N              | FME-N     |
| FSMA           | FME-FSMA  |
| BNC            | FME-BNC   |
| TNC            | FME.TNC   |
| UHF            | FME-UHF   |
| Mini-UHF       | FME-MUHF  |
| Elbow-MUHF     | FME-EMUHF |
| Elbow-BNC      | FME-EBNC  |
| Elbow-TNC      | FME-ETNC  |
| SMA            | FME-SMA   |

For further information about other types of FME-cables please compare the cable data sheets under accessories in our catalogue.