

LPW-868

Wall Mount 868MHz Antenna

Issue Date: 08/06/2018 v.A



Low profile

Adhesive or screw mount

Multiple cable routing options

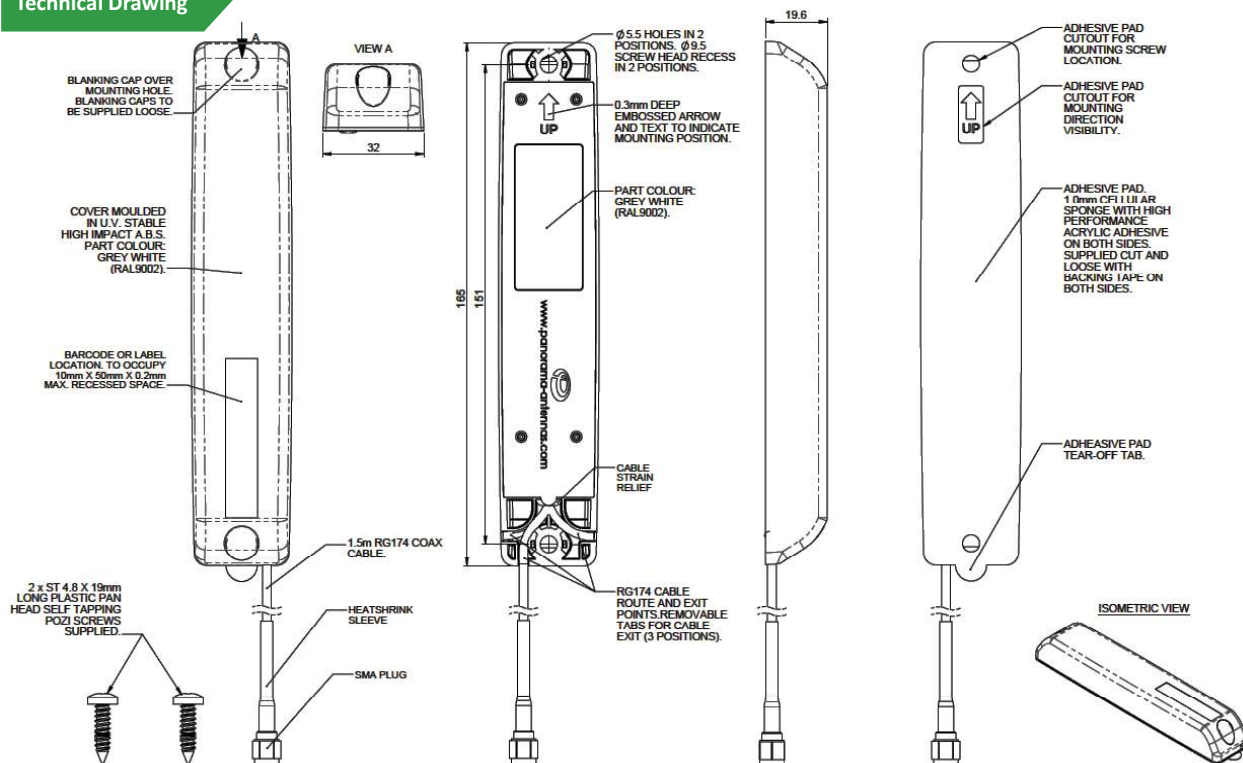
The Panorama LPW antenna is designed to decrease the lifetime cost of M2M and smart metering installations by offering a robust, effective antenna that is easy to install.

The antenna offers ground-plane independent omni-directional performance across the 868MHz band. The efficient element design ensures a high first time connection rate and an ongoing, robust communications link+.

The antenna can be installed using the supplied industrial grade adhesive pad or via the integrated screw mounting bosses.

+Performance may change based on mounting surface.

Technical Drawing



Part No.

LPW-868-2SP

Electrical Data

| | |
|-------------------------------|------------------|
| Frequency Range (MHz) | 868MHz |
| Peak Gain: Isotropic + 868MHz | 2dBi |
| Polarisation | Vertical |
| Pattern | Omni-directional |
| Impedance | 50Ω |
| Max input power (W) | 20 |

Mechanical Data

| | | |
|---------------------|-----------------------------|------------|
| Dimensions (mm) | Height | 20 (0.79") |
| | Length | 165 (6.5") |
| | Depth | 32 (1.26") |
| Operating Temp (°C) | -30° / +70°C (-30° / 158°F) | |
| Material | ASA Plastic | |
| Colour | RAL 7047- Grey | |

Mounting Data

| | |
|--------|--|
| Fixing | Acrylic adhesive pad and 2x ST/STL 4.8/19mm screws |
|--------|--|

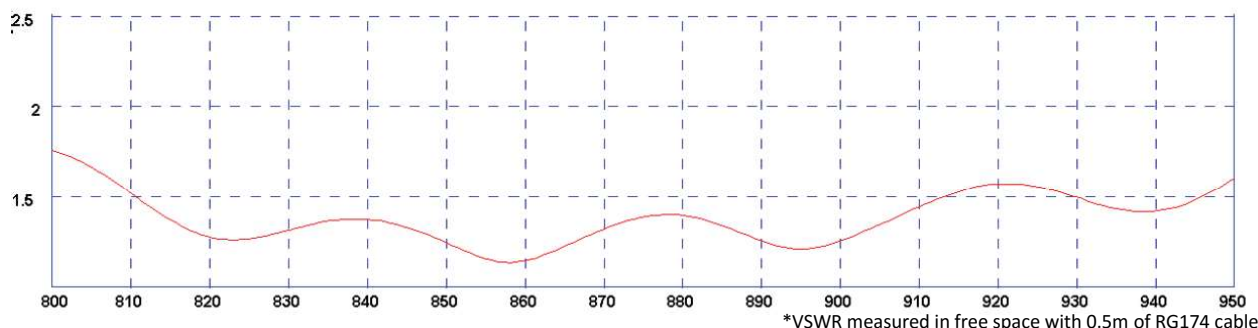
Cable Data

| | |
|--------------------|--------------|
| Cable Type | RG174 |
| Diameter (mm) | 2.8 (.1") |
| Length (m) | 2(6.6') |
| Attenuation (db/m) | 868MHz < 1.2 |
| Termination | SMA Plug |

+ Peak gain does not include cable attenuation

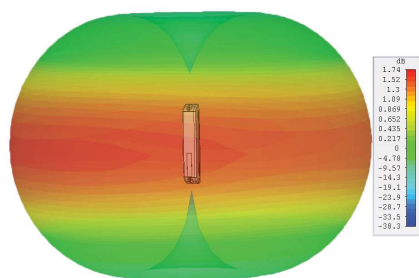
VSWR

Typical VSWR*

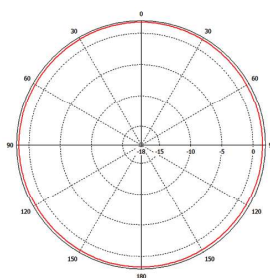


Patterns

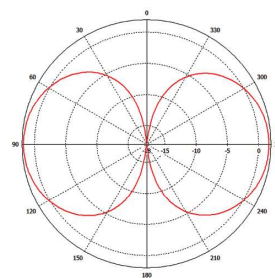
Typical 3D pattern (868MHz)



Typical H plane (868MHz)



Typical E plane (868MHz)


PANORAMA ANTENNAS

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† Patterns simulated in CST Microwave Studio in free space excluding cable loss.

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