

Manhole / pit external antenna



Application

The External Antenna ensures strong and stable connectivity for smart water meters installed in difficult environments where network coverage is limited. By transferring the signal source from obstructed or underground locations to open air, it significantly improves communication reliability.

The manhole / pit-mounted version is specifically suited for underground installations where the meter is located below ground level and the antenna must be routed to the surface.

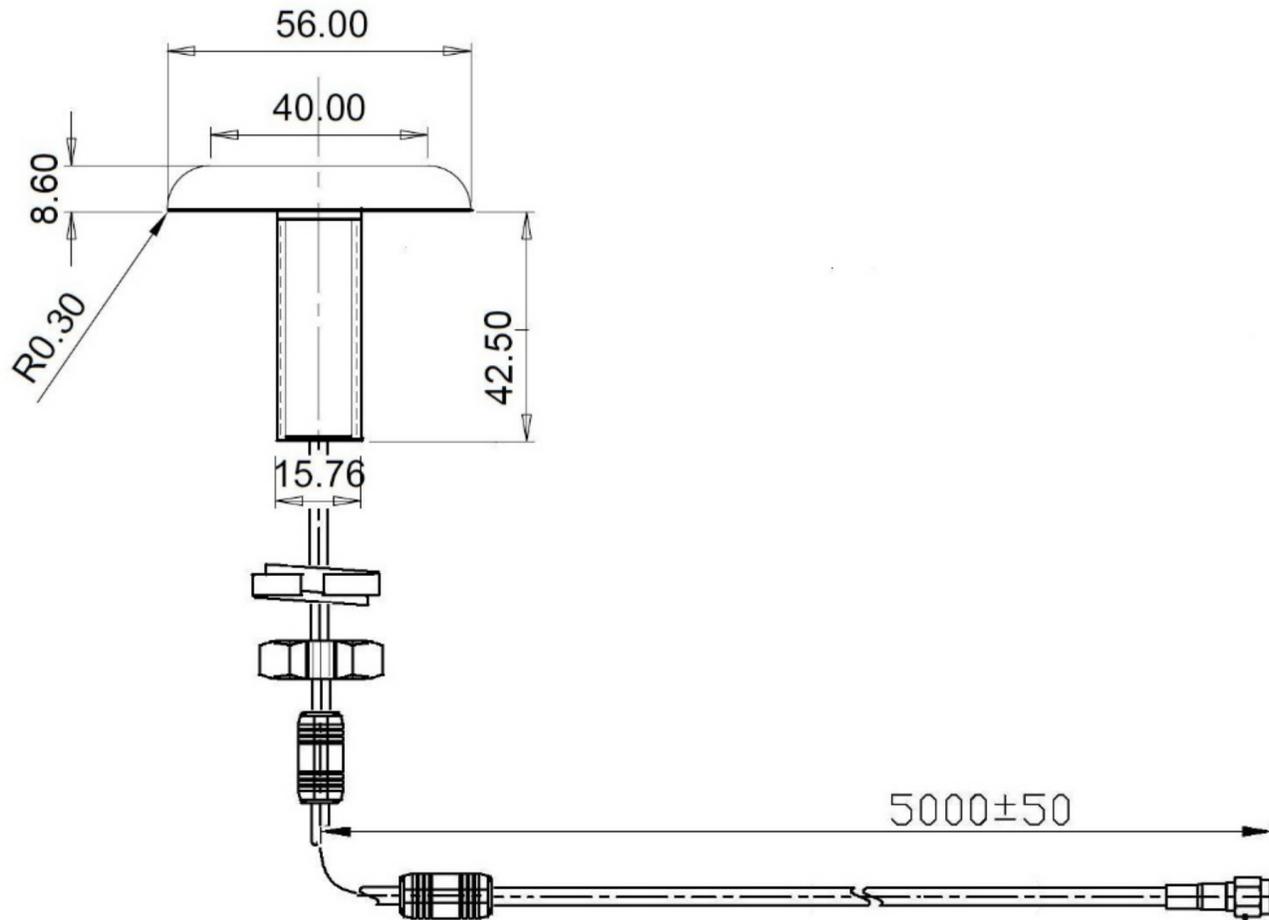
Main benefits:

- Moves the signal from low-reception areas to higher, unobstructed positions to enhance communication reliability
- Suitable for pit-mounted installations in outdoor environments
- Help maintain consistent data transmission and network performance across diverse site reliability.

Key features

Signal source transfer – moves the signal from low-reception areas to higher, unobstructed positions to enhance communication reliability.

- Versatile compatibility – Supports all major smart metering communication technologies including LoRaWAN, WmBus, and NB-IoT.
- Rugged & Weatherproof Design – Built from durable, UV- and corrosion-resistant materials with IP68 protection against water and dust ingress.
- Simple Installation – Delivered with a pre-fitted cable and secure plug-and-play connector, allowing fast setup without special tools.
- No External Power Required – Operates passively through magnetic coupling with the meter's built-in antenna.



Technical features

Configurations	Manhole/pit design
Ingress Protection	IP68 (water and dust resistant)
Connection Method	Magnetic coupling (no power supply required)
Compatibility	LoRaWAN, WmBus, NB-IoT
Operating Environment	Outdoor and underground installations
Cable	Pre-fitted, shielded connection cable
Cable options	Cable lengths available in 5 meters and longer
Impedance	50 Ohm
Frequency range	700~935 MHz
Operating temperature range	- 30 ° C +70 ° C
Storage temperature range	- 40 ° C +80 ° C
Average gain	2.0 ~ 3.5 dBi
Efficiency	> 70%

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