

LPWAN Device Antenna

TECHNICAL DATA SHEET

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QUALITY TESTING



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Description:

The very compact **LPWAN device antenna** is ideal for installation on energy meters, W-M-Bus clients, SigFox, LoRa and smart home solutions. The slim design allows this antenna to be mounted inconspicuously. When installed, the transmission characteristics are improved over the internal device antenna. Due to the IP66 certification, the installation can also take place outside the building.

Technical details:

Part number	15F-A015-AJ-01 (1.5m, FAKRA) 15F-A015-AB-01 (1.5m, SMA)
Frequency range	ISM868 (865-880 MHz)
Antenna gain	2 dBi
Standing wave ratio¹ (VSWR)	< 2:1
Impedance	50 Ω
Efficiency¹	> 50%
Polarization	linear
Antenna type	Wallmount patch
Radiation pattern	omnidirectional (in free space)
Power (max.)	10 W
Cable	Low loss (AA100 type, attenuation < 0.75 dB/m at 900 MHz)
Cable length	1.5 m
Connector	FAKRA C right angled / SMA
Isolation rating²	> 6000 V
Temperature range	-40 °C to +85 °C
Humidity	max. 95 % RH (non-condensing)
Wind resistance	> 150 km/h
Flammability	V0
UV resistance	min. 10 years
Product lifetime	min. 15 years
Weight	97 g

Mounting	2-hole mounting, adhesive
Conformity	ROHS / WEEE / CE
Color	grey
HS Code	8529.10
Country of origin	People's Republic of China

¹ The standing wave ratio (VSWR) and the efficiency of the antenna depend on the materials used in the vicinity.

² Applies to the cable only. Test of the complete cable between inner conductor and outer sheath in accordance with EN 50395:2005 Sect. 6

Notes:

- Mounting instructions can be found on our website <https://enqt.de/en> under Support/Downloads.
- In addition to the variants listed above, the antenna can be manufactured with numerous different connector types, customized cable types and cable lengths. Please contact us for a quote.