

Antenna

Exe Series

PRODUCT OVERVIEW

Mimes developed the Exe antenna to make their products the most versatile and flexible products on the market for ISA100, WirelessHart and other 2.4 GHz and 5 GHz applications.

The goal was to avoid complex and costly use of barriers and other techniques of achieving the desired Ex ratings needed for our products. Also the mantra of Mimes is least amount of components to achieve the function intended. This resulted in an flexible Exe antenna that can be mounted directly to with bracket without the need for any additional barrier. As a result of this we are left with an independent product that can be utilized by all manufacturers and customers looking for an flexible and Exe rated antenna other devices requiring an 2.4 GHz or 5 GHz antenna.

Pre terminated in the antenna and with different options on cable length allows for great flexibility in field even in the most challenging conditions. It is omni directional in the horizontal plane and has great vertical coverage as well.



APPROVALS

DNV 23 ATEX 38756X

IECEX DNV 23.0018X

STANDARDS

EN/ IEC 60079-0

EN/ IEC 60079-7

EN/ IEC 60079-31

CODING

Antenna:

Ex II GD

Ex eb IIC T6-T5 Gb

Ex tb IIIC T135°C Db

T.amb - 20°C to +70°C, pending on power rating

FEATURE	BENEFIT
Universal usage globally with for 2.4GHz and 5 GHz capabilities	One solution for all equipment in field ISA100, Wireless HART, WLAN, Industrial WIFI, Bluetooth, Zigbee and more
Exe certified with pre terminated antenna cable	No need for barrier when connecting to equipment, allows for compact design and easy interface. Combined with almost unlimited fleiblity
Designed by industry experts in house	Mimes has resources with strong knowledge in the Ex field and can support with guidance to achieve overall Ex certification for you design
Bracket mounted antenna	Flexibility for field mounting
Unique design to enable digital transition	Reducing overall cost of bringing your portfolio into the IoT domain
Robust, UV stable polycarbonate enclosure capabilities	Lightweight, harsh-condition installation



PARTCODES

Version:	Partcode:	
Product type	AN	
Antenna	A	Standard mounted on enclosure
	A	Custom cable length
	1	up to 10m
Cable	C01	Times Microvave FR
	C02	Times Microwave
Gland	G01	Tranberg
	G02	Hawke
Equipment tag	1	Label tag
	2	SS Equipment tag
Connector	1	SMA
	2	RP-SMA

SPECIFICATION

Frequency range:

2400-5800 MHz

Gain:

0 to 4dbi

Polarization:

Vertical

Ingress protection:

IP66/67

Nominal impedance:

50 ohm

Max input power:

2 Watt (Ex limitation)

Enclosure material:

UV stable polycarbonate

Enclosure colour:

Black

Cable entries:

1 x M16x1,5mm

Wiring:

LMR-240, Diameter 6,096mm

Operating temp:

-20°C to +70°C [-58°F to +158°F]

Dimensions:

157,7 x 157,7 x 108,5

Fixing holes bracket:

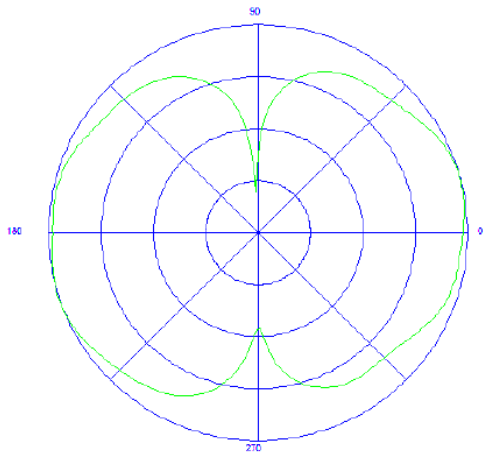
2x Ø5, 1x Ø25

Humidity:

95% – Additional tropicalization is recommended for applications where both high relative humidity and high ambient temperatures exist

Net Weight:

180 g



Typical radiation pattern

