

RadioPushButton

RPB Series

PRODUCT OVERVIEW

The RadioPB from Mimes provides the possibility to transform wired equipment to wireless IoT for both standard and safety (SIL2) applications.

The push button feature a robust GRP/stainless steel enclosure and ip66/67 rating.

The wireless link is based on any of the industrial protocols ISA100 or WirelessHART which are both designed with security and low power in mind which is a great fit for IIoT devices.

The device can be run on battery for a true wireless experience.



APPROVALS

Hardware and Software developed in accordance with IEC 61508:2010 SIL2

STANDARDS

IEC 61326-1

IEC 61000-6-7

IEC 61000-1-2

EU RED art. 3.1a / 3.1b / 3.2

ETSI EN 301 489-1 / 301 489-17

ETSI EN 300 328

EN/IEC 60079-0

EN/IEC 60079-1


EN/IEC 60079-7

CODING

RadioHub:

T.amb -40°C to +70°C

IECEX

ATEX  II 2G

Ex db IIC Gb T6

EX tb IIIC Db T90

Antenna:

EX II GD

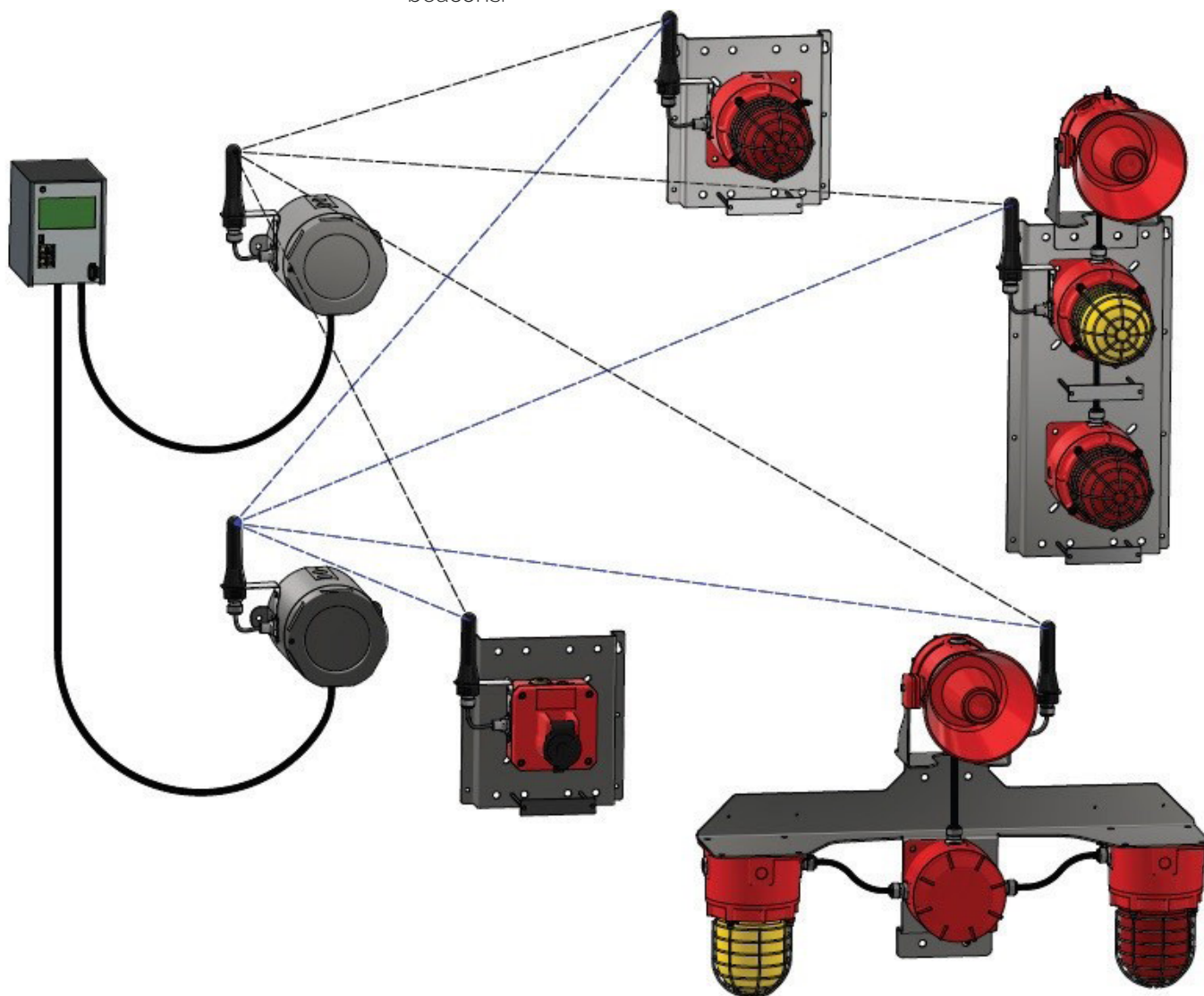
EX eb IIC T4 Gb

EX tb IIIC t135°C Db

T.amb -20°C to +65°C

Doc.nr 202-001 R1

RadioPB one sounder and two beacons.



Wireless redundant network
controlling multiple inputs and
outputs.

PARTCODES

Version:	Partcode:	
Product type	RHB	
Safety	I	Standard/Industrial
	S	SIL2
Lift Flap	L	Lift flap supplied as standard
Colour	R	Red colour
	S	Special colour
Antenna	A	Standard mounted on enclosure
	B	Top mounting on enclosure
	A1	Custom cable length up to 1m
	N	No antenna
Communication	W1	ISA100
Standard Versions	RPB-GRP-S	I-P-T01-L-1-R-B-W1
	RPB-SS-S	S-P-T01-L-1-R-B-W1

SPECIFICATION

DC:
7,2 Vdc internal battery
Power Consumption:
0,1 mA
Input:
2 x AI/DI
Outputs:
1 external LED indication possible
Ingress Protection:
IP66/67
Enclosure Material:
UV stable GRP
(glass reinforced polyester)
Stainless Steel
Enclosure Colour:
Red
Operating Temp:
-20°C to +70°C [-40°F to +158°F]
Dimensions:
120 x 120 x 80
Humidity:
95%, Non Condensing
Net Weight:
3,5 Stainless Steel
0,9kg GRP
Wireless Interface:
ISA100

NETWORK AND COMMUNICATIONS

Encryption	128-Bit-AES
Network Modes	Star/MESH/STARMESH
Antenna Connection	MMCX
Antenna	Omnidirectional 2.4-5.8 GHz
Configuration and Software	Serial Port, Bluetooth Low Energy
Communication	PROFIsafe/ISA100.11.a WirelessHART, LoRa, WiFi
External Communication (Gateway Dependant)	Modbus TCP, OPC UA, ProfiNet, ProfiSafe

