

HAZ LOC RADIO SOLUTIONS

DATASHEET



EXPLOSION PROOF PHANTOM™ GATEWAY FOR ERBESSD INSTRUMENTS® SENSORS

The Solexy SWA/SWS V** is a compact and cost-effective gateway for bluetooth to WiFi based on Erbesd Instruments® Phantom gateway for applications in hazardous location.

A powerful link between your Erbesd Instruments® PHANTOM™ sensors and DigivibeMX® wireless vibration analyzer and data collector. With expanded storage, new communication protocols, simultaneous data collection, remote updates via EI Analytic, and on-demand access from the user interface, you now have full control of your Erbesd Instruments® system.

With Solexy's SWA and SWS enclosures and their rugged construction combined with Atex, IECEx and North America (pending) certificates, Solexy offers a the solution for the gateway's installation in classified Ex areas (gas, dust and mining) and harsh environments as zone 1. Class I, div 1 pending.



FEATURES



OPERATING FUNCTIONS

Ethernet 100/10 RJ 45



WIRELESS

WiFi 2.4/5 GHz 802.11

Bluetooth low energy 5.0



HEAVY DUTY CONSTRUCTION

Explosion proof enclosure made in aluminum (SWA series) or stainless steel (SWS series) weather proof IP66/68



COMPATIBILITY

Erbesd Instruments® DigivibeMX 11 PHANTOM & M30 Versions, EI-Monitoring, EI Analytic FirmwareUpdates via Gateway

APPROVALS



ATEX / IECEx CERTIFICATION



Zone 1, 2, 21 & 22

I M2(M1) Ex db mb [ia Ma]

I Mb (SWS only)

II 2(1) G Ex db mb [ia Ga] IIC T6... T5 Gb

II 2(1) D Ex mb tb [ia Da] IIIC T80°C... T100°C Db

USA & CANADA CERTIFICATION

(Pending)

Class I, Division 1, Groups B, C and D

Class II, Division 1, Groups E, F and G

Class I, Zone 1, Groups IIB+H2 [For U.S. only]

Zone 21, Groups IIIC [For U.S. only]

CONFIGURATION



SWA	V01	33	- 42	1	X0
a	b	c	d	e	

a - Enclosure

SWA Aluminum polyester powder coated

SWS Stainless steel AISI 316 (CF8M) electropolished

b - Device

V01 Phantom Gateway 2.0

c - Antenna connection

33 n° 2 UXN antenna coupler (N Female)

d - Cable entries

42 n° 4 3/4" npt-f

44 n° 4 M25x1.5

e - Approvals

X0 Atex/IECEx Gas and Dust certified ⁽¹⁾

M0 Atex/IECEx Gas, Dust and mining certified ⁽¹⁾

N0 QPS Cl. I Div. 1 and North American Zones listed

Notes: ⁽¹⁾ Zone 1, 2, 21 & 22

AVAILABLE ACCESSORIES

MOUNTING BRACKET

KM-01: mounting kit for 2" pipe

KM-02: universal mounting kit

(see dedicated data sheet)



SPECIFICATIONS

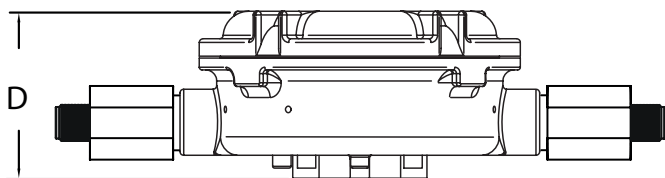
GENERAL	
Power supply	9 - 24 VDC
Power consumption	Max 10 W
Ambient temp. range	ATEX & IECEX SWA series -7°C (19°F) +46°C (+114°F) SWS series -7°C (19°F) +32°C (+89°F)
Weight	SWAVxx33: 2,6 kg (without antenna) SWSVxx33: 5,3 kg (without antenna)

RADIO	
WiFi protocol	2.4/5GHz
Bluetooth protocol	Bluetooth low energy 5.0
Operating frequency	2.4GHz
Network port	100/10M ethernet RJ45
Compatible protocols	Modbus TCP / IP, OPC and MQTT
Compatibility	Erbessd Instruments® DigivibeMX 11 PHANTOM & M30 Versions, EI-Monitoring, EI Analytic Firmware Updates via Gateway

Data contained in this specification are subject to change without notice

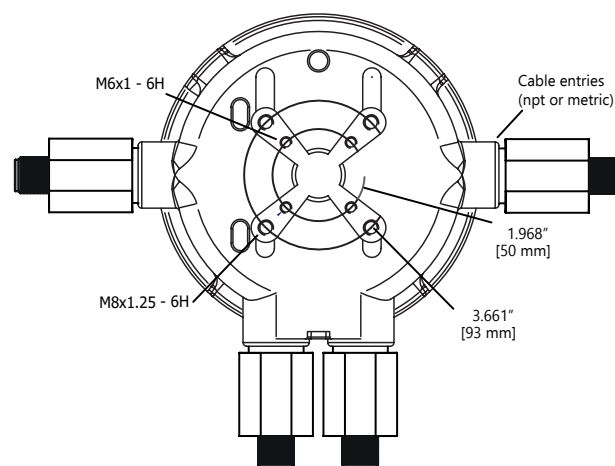
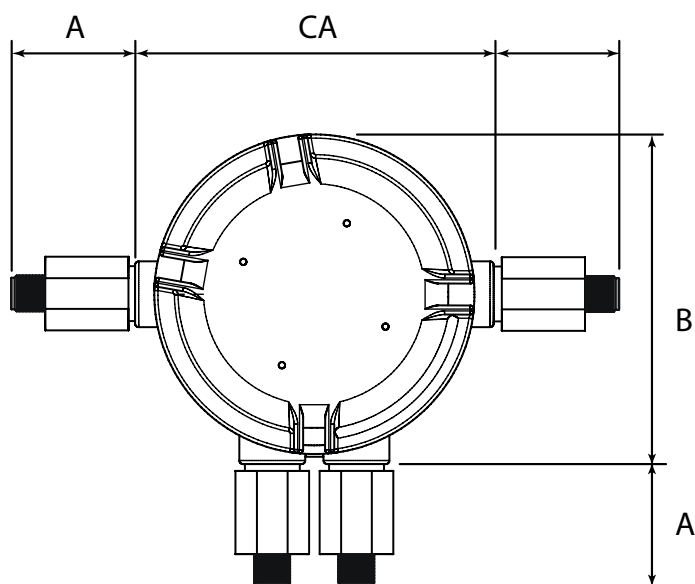


DIMENSIONAL DRAWINGS



In order to determine overall dimension of a specific unit pls follow instructions:

- 1) Select the specific layout (you can find it in the product nomenclature)
- 2) Consider only the antenna coupler dimension (A) that you find in the layout

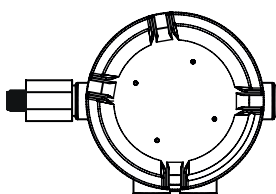


MODEL	A (*)	B	C	D
SWA HWA	58,5 mm [2.30"] metric coupler 70 mm [2.76"] npt coupler	179,8 mm [7.08"]	180 mm [7.09"]	89,5 mm [3.52"]
SWS HWS	58,5 mm [2.30"] metric coupler 70 mm [2.76"] npt coupler	180,5 mm [7.11"]	196 mm [7.72"]	90 mm [3.54"]

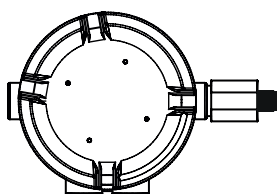
(*) max dimension related to RX or SX coupler with N female antenna connector

TYPICAL LAYOUTS **

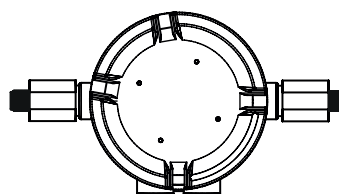
Layout 1



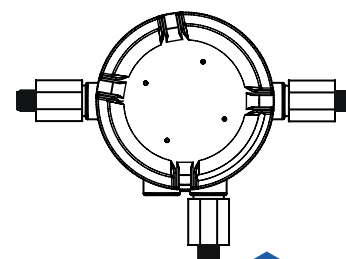
Layout 2



Layout 3



Layout 4



(**) layout type specified in device datasheet





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