EXPLOSION PROOF BLUETOOTH SERIAL ADAPTER



The Solexy Bluetooth wireless serial adapter is a cost effective solution for serial data transmission.

The Class 1 Bluetooth radio can reach wireless transmission distance of 100 meters.

Available for RS232 or RS485/422 serial port, making it a flexible solution for M2M applications.

With Solexy's SWA and SWS enclosures and their rugged construction water proof IP66, IP68, Nema 4 and 4X combined with Atex, IECEx and North America certificates, Solexy offers a wireless device solution for installation in classified Ex areas (gas, dust and mining) and harsh environments, including temporary submersion.









FEATURES

OPERATING FUNCTIONS

RS232 or RS485/RS422 serial cable replacement

BLUETOOTH

v2.0 + EDR

Supports up to 4 multiple simultaneous connections Supports Bluetooth profiles SPP (Serial Port Profile) Interoperability with PDA, laptops, etc...

CONFIGURATION

Easy to use Windows configuration tool available (no external drivers required)



APPROVALS

ATEX / IECEx CERTIFICATION

Zone 1, 2, 21 & 22

 $\langle \xi_x \rangle$ I M2(M1) Ex db mb [ia Ma] I Mb (SWS only) II 2(1) G Ex db mb [ia Ga] IIC T5 Gb II 2(1) D Ex mb tb [ia Da] IIIC T100°C Db

USA & CANADA CERTIFICATION

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]



SPECIFICATIONS

GENERAL				
Power supply	5-12VDC			
Power consumption	min 2 mA - max 80 mA			
Ambient temp. range	USA & CANADA SWA series: -40°C (-40°F) +85°C (+185°F) SWS series: -40°C (-40°F) +85°C (+185°F)			
	ATEX & IECEx SWA series: -40°C (-40°F) +83°C (+181°F) SWS series: -40°C (-40°F) +82°C (+179°F)			
Weight	SWA: 2.3 kg (without antenna) SWS: 4.9 kg (without antenna)			
SERIAL INTERFACE				
Serial speed	up to 921.6 kbps			
CTR/RTS flow control DTR/DSR for loop-back & full transfer (B10 type only)				
RADIO				
Max TX power	+18 dBm			
Max EDR Transmit power	+6 dBm			
Receiver sensitivity	-88 dBm			
BLUETOOTH INTERFACE				
Bluetooth	v2.0 + EDR			
Class	1			
Profile	SPP			

NOMENCLATURE

SWA	B10	03 -	42	0	X0
a	b	С	d		е

a - Enclosure

SWA Aluminum polyester powder coated

SWS Stainless steel AISI 316 (CF8M) electropolish

b - Device

B10 RS232 Bluetooth serial adpater RS485/RS422 Bluetooth serial adapter B11

c - Antenna connection (1)

n° 1 RXN antenna barrier (N Female) n° 1 RXF antenna barrier (RP-SMA Female) 04 n° 1 RXS antenna barrier (SMA Female) 05

d - Cable entries

42 n° 4 3/4" npt-f (one used for antenna connection) 44 n° 4 M25x1.5 (one used for antenna connection)

e - Approvals

X0 Atex/IECEx Gas and Dust certified (3) M0 Atex/IECEx Gas, Dust and mining certified (3) N0 QPS CL1 DIV1 and North American Zones listed

Notes:

- ⁽¹⁾Antenna not included
- (2) Layout 2 (consult dimensional drawings for specific layout)
- (3) Zone 1, 2, 21 & 22

AVAILABLE ACCESSORIES

ANTENNAS:

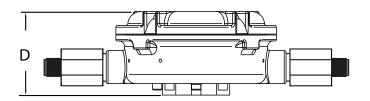
ANF72: flexible dipole (2.4GHz/2dBi) ANH73: heavy duty J-Pole (2.4GHz/4.35dBi) **MOUNTING BRACKET:** KM-01: mounting kit for 2" pipe (see dedicated data sheet) KM-02: universal mounting kit



in

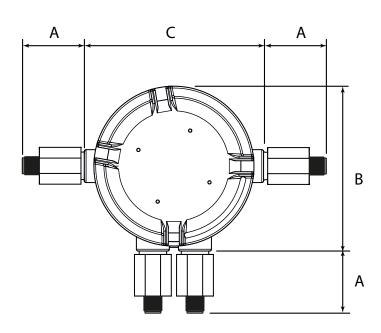
DIMENSIONAL DRAWINGS

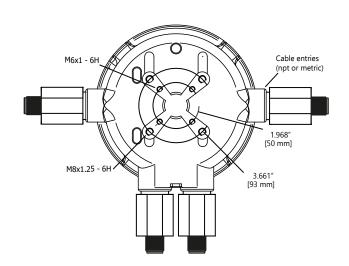




In order to determine overall dimension of a specific unit pls follow instructions:

- 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

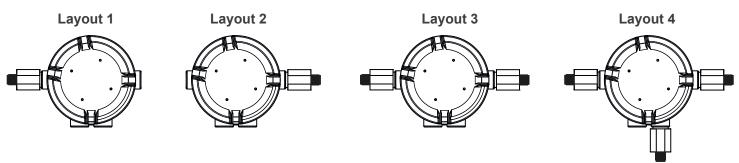




Model	A (*)	В	С	D
SWA HWA	58,5 mm [2.30"] metric coupler 70 mm [2.76"] npt coupler	179,8 mm [7.08"]	180 mm [7.09"]	89,5 mm [3.52"]
SWS HWS	58,5 mm [2.30"] metric coupler 70 mm [2.76"] npt coupler	180,5 mm [7.11"]	196 mm [7.72"]	90 mm [3.54"]

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

TYPICAL LAYOUTS



(**) layout type specified in device datasheet