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

⟨Ex⟩ II 2 (1) G Ex db mb [ia Ga] IIA/IIB/IIC T6 Gb
II 2 (1) D Ex mb tb [ia Da] IIIC T85°C Db
I M2 (M1) Ex db mb [ia Ma] I Mb (SWS only)

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) +68°C (+154°F) SWS series -40°C (-40°F) +61°C (+141°F)

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	c	d		e

a - Enclosure
SWA   Aluminum polyester powder coated
SWS   Stainless steel AISI 316 (CF8M) electropolish

b - Device
B10   RS232 Bluetooth serial adpater
B11   RS485/RS422 Bluetooth serial adapter

c - Antenna connection [1]
03   n° 1 RXN antenna barrier (N Female)
04   n° 1 RXF antenna barrier (RP-SMA Female)
05   n° 1 RXS antenna barrier (SMA Female)

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