



Wireless Hardware Sensors & Push Buttons

connect. link. inform.



ASW DOMOTIC

Wireless solutions.

...



It all adds up to the Simple
Solution for your advanced
monitoring requirements.

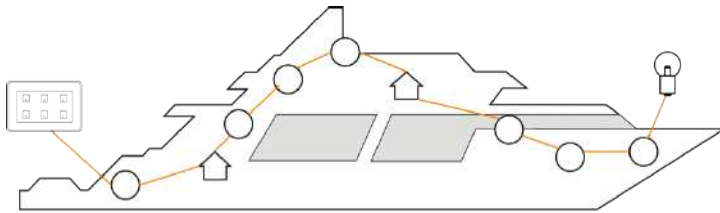
Reduce installation time with ASW domotic.

By totally eliminating cabling and components between the push button and the electrical cabinet, you save installation time, and reduce your installation costs.

- **Simplified cabling**
with completely wireless push buttons
- **Easier integration through open protocols**
by Ethernet Modbus/TCP
- **Architecture solutions**
for integration into boats, industrial and building environments



Simplified cabling



Installing a new hard-wired ASW DOMOTIC quickly on your boat can be challenging.

You have to take many factors into account: (a) the length of cable and connections to the push button, (b) the cabling and connections in the boat, and (c) the time required for fitting the cables in covers or existing cable ducting.

Using the new Navio-Link™ wireless, XB6R and XB6B push buttons, the only cabling required is for the battery (XB5B) or the receiver in the cabinet.

Proven reliability

- Continuous availability of control function
- Reduced maintenance
- Energy-efficient, thanks to a low-current consuming transmitter

LOW
battery drainage



20% less
installation costs
compared to a
hard-wired solution

Robust functionality

- High resistance to contamination from dust
- No risk of cable damage or loosened screws on the transmitter
- Proven quality and high performance
-

Economical and flexible

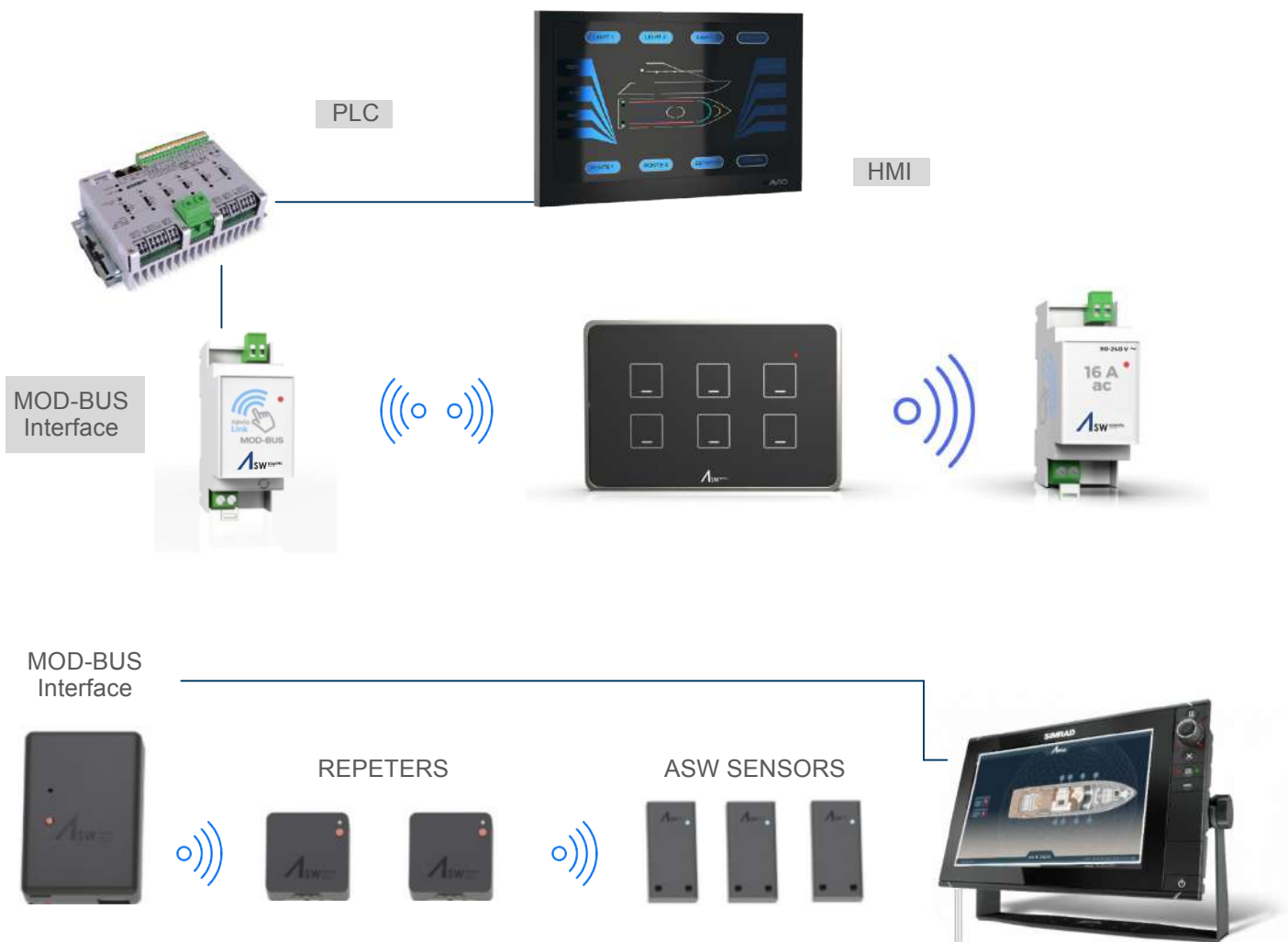
- Reduction in installation costs and time
- Easy configuration required, thanks to ready-to-use packs
- Freedom of movement
- Ideal solution when you need to add or move an accessory

Easy integration and open protocols



Integration into boat automation systems via a field bus link

- Modbus/TCP: gateway, available as an addition to integrate our system to any boat advanced solution (glass display)



Simple and economical

Double RJ45 port enables network continuity without using hubs or switches

Up to **256** transmitters connected on the same bus

Comprehensive product range



From individual products to ready-to-use packs

Soft Touch Keyboard



IP67 Keyboard



EASY Transmitter



Din Remote Relè



EASY Remote Relè



Micro UPS



Gateway MODBUS



EASY Receiver



ASW sensor



EASY touch screen



Easy-to-use solution

- Designed to meet the requirements of most applications
- Simple to order with only one reference number

For cabin USE – DIN

IP67, for external use, DIN



Aluminum Frame

AM5RFB01

- 1 transmitter with metal frame, 6 soft-touch, programmable buttons
- Set of 6 Remote Relay



Plastic Frame

AM5RFA02

- 1 transmitter with plastic frame, 6 soft touch programmable buttons
- Set of 6 Remote Relay



- Easy to install with factory pre-programmed transmitter and receiver

For custom domotic haerdware control - DIN

Custom Solution

AMASWHD

- 1 micro UPS
- 1-3 modbus
- Set of 6 DIN Relay
- Set receiver 2-4



AWS DOMOTIC XB5R plastic and XB4R metal Wireless push buttons

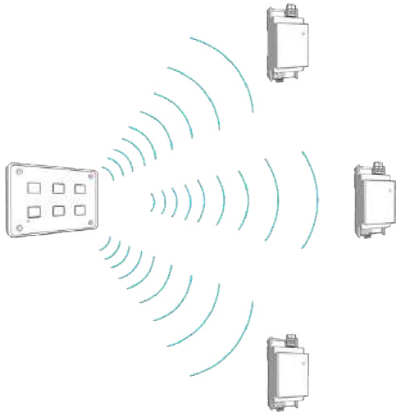


Figure A: radio transmission between 1 transmitter and 3 receivers

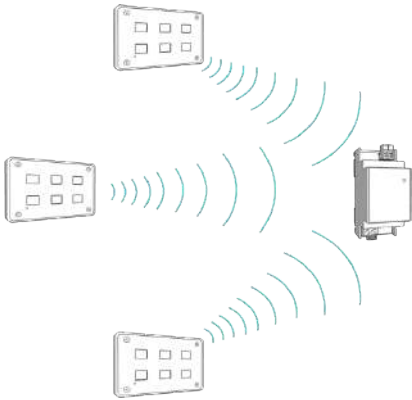


Figure B: radio transmission between 3 transmitters and 1 receiver

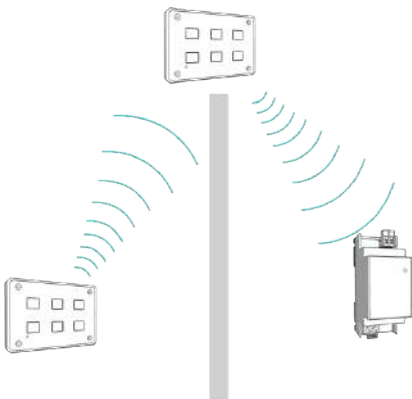


Figure C: repeater communication with obstacles

Introduction

ASW domotic wireless push button product range enables remote control of a relay (receiver) by means of a push button (transmitter). The control is by radio transmission, where the transmitter is fitted with a battery or connected to a low voltage power supply (12/24 volt). A radio-encoded message with a unique ID code is sent to one or more receivers located several meters away (see figure A). A single receiver can also be actuated by up to 256 different transmitters (see figure B).

Depending on the application, a relay can be used to “transmit around” an obstacle that impedes transmission, or to increase the range (see figures C).

The possible distance (1) between a transmitter and a receiver is approximately:

- 100 m/328 ft where there are no obstacles,
- 25 m/82 ft if the receiver is installed in a metal housing or in a closed metal enclosure,

The wireless, push button reduces installation time and costs, by eliminating wiring to associated equipment and between the transmitters and the breakers panel.

This technology also allows an operator to be mobile or have a control mounted on-board a vehicle (tender). The battery push button is always available and requires low maintenance (battery).

This technology can be used for dimming as well.

Environment

The performance features of the XB5R range conform to the following specifications:

b International standards and approvals:

v Wireless push buttons: EN/IEC 60947-1, EN/IEC 60947-5-1,
UL 508, CSA C22-2 N° 14

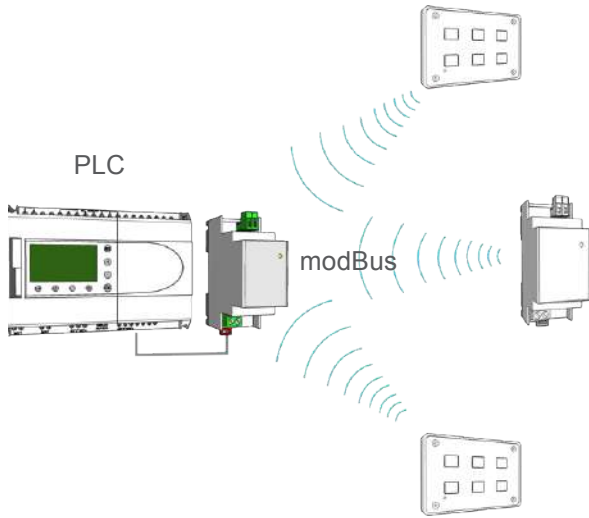
v Transmitter/Receiver system: BT 2006/95/EC, CE: R&TTE 1999/5/EC,
EMC 2004/108/EC

b International certifications: UL, CSA, C-Tick, GOST, CCC

b Radio agreements: ANATEL (Brazil), SRRC (China), FCC (USA), RSS (Canada), ICASA (South Africa), ARIB T66 (Japan)

(1) Typical values which can be affected by the application environment.

ASW DOMOTIC XB5R plastic and XB4R metal NavioLink <> MODBUS gateway



Description

Standard access point with communication module (see figure B)

ASW DOMOTIC<> MOD BUS Gateway provides network connectivity by operating as intermediate equipment between the transmitters and the PLC normally installed on board for Glass Screen Display visualization. The access point receives radio signals from the transmitters and converts them to communication protocols. It is connected to the PLC using either Ethernet line or Modbus/TCP protocol.

The access point can be used with Wireless Keyboard (transmitters) such as XB4R and XB5R, Remote Relays (receivers) as well as other devices of the Navio-Link line, and can be connected to any PLC/Glass Display that support Ethernet or Modbus/TCP protocols.

Depending on the application, an external or a relay antenna can be used to improve signal reception. An access point can support up to 256 radio transmitters.

The Access point can be configured through web pages using the Ethernet connection and a PC (Modbus/TCP communication module).

The possible distance between a transmitter and an access point is approximately:

- 100 m/328 ft where there are no obstacles
- 25 m/82 ft if the access point is installed in a metal housing or in a closed metal enclosure
- 300 m/984 ft if a Repeater is located between the transmitter and the access point (installed in a metal housing or in a closed metal enclosure),
- 60 m/197 ft if an external antenna is connected to the access point.

Depending on the application, an external or a relay antenna can be used to improve signal reception. An access point can support up to 60 radio transmitters.

(1) Please refer to the References table on page 14 for the compatible list of transmitters.

(2) For more information on SoMachine and Unity Pro software, please refer to our website www.schneider-electric.com.

(3) DTM is a software component file that enables the SoMachine or Unity Pro software to communicate with the connected system.

(4) Typical values which can be affected by the application environment.

(5) ZBRN1 must be plugged with a communication module, reference ZBRCETH for Modbus/TCP protocol.

Figure B: standard access point with communication module

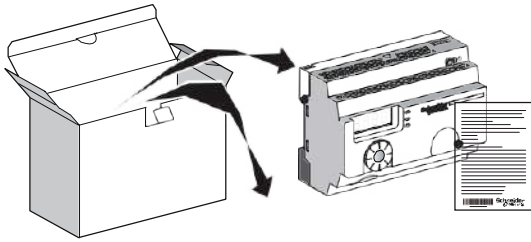
ASW DOMOTIC Wireless Gateway

Description

Access point for Modbus™ serial line protocol (see figure C)

The access point ZBRN2 has 2 embedded RS485 connectors that avoid the use of an external hub for RS485 Serial line connection. The supported baud rates are 1200 bps, 2400 bps, 4800 bps, 9200 bps, 9600 bps, 38,400 bps, and 115,200 bps.

1	Z	R
	B	N
		2



Mod-Bus Communication gateway

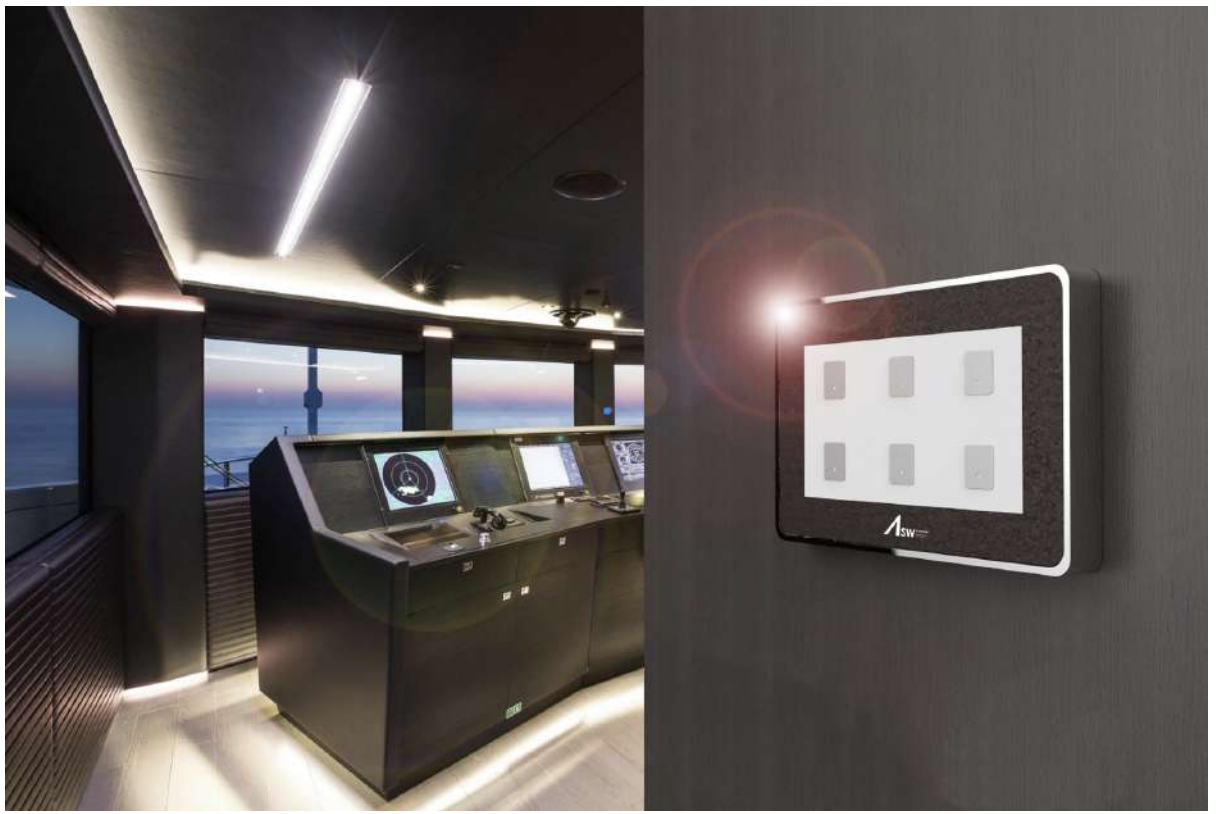
Description	Characteristics	Communication port	Reference	Weight kg/lb
Modbus/TCP network communication module	Modbus/TCP protocol with embedded Web pages for configuration.	2 RJ45 connectors that provides daisy chain and daisy chain loop operation	ZBRCETH	0.044/ 0.097

Accessories

Product	Application	Description	Reference	Weight kg/lb
External antenna	Connected to the access point (ZBRN1 or ZBRN2) Used to increase the distance of 1 RF connector transmission	2 m/6.56 ft cable	ZBRA2	0.040/ 0.088

Note: The ZBRN2 has embedded communication port for Modbus Serial Line, while the ZBRN1 must be plugged with a communication module to support different protocols.





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**dare
to be
unique.**

