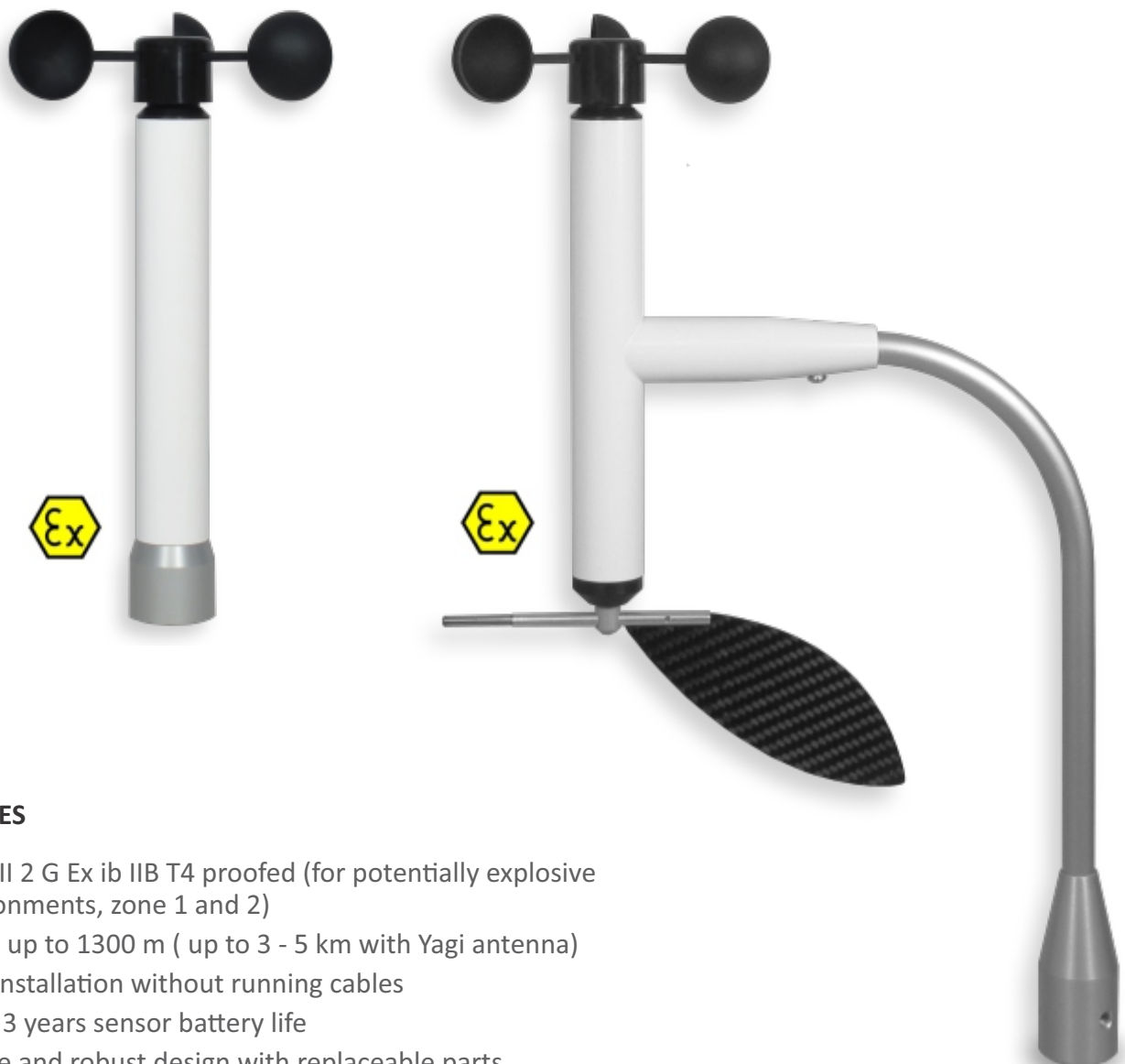


WIRELESS WIND SENSORS FOR POTENTIALLY EXPLOSIVE ENVIRONMENTS

Wind speed: WS 011-1-EX

Wind speed & direction: WSD 011-1-EX



FEATURES

- ATEX II 2 G Ex ib IIB T4 proofed (for potentially explosive environments, zone 1 and 2)
- range up to 1300 m (up to 3 - 5 km with Yagi antenna)
- easy installation without running cables
- up to 3 years sensor battery life
- simple and robust design with replaceable parts
- replaceable cups, vane and bearings
- compatible with range of NAVIS display/receiver units
- simultaneously operates with multiple display/receiver units

INTRODUCTION

Navis **WS 011-1-EX** & **WSD 011-1-EX** feature state of the art low power wireless technology connecting sensor and displays, resulting in user friendly “plug and play” installation. Sensors are ATEX/IEC certified and provide reliable solution for wind monitoring in hazardous area.

Sensors can operate with wide range of NAVIS display/receiver units enabling a lot of additional functionality like alarming, history logging Wi-Fi and Bluetooth connectivity and outputs for integration into systems.

INSTALLATION AREAS

The ATEX proofed sensor can be mounted in hazardous zone (explosion zones 1 or 2), while the receiving display unit can only be used in safe zone away and/or separated from hazardous zones.

ORDERING

Sensors

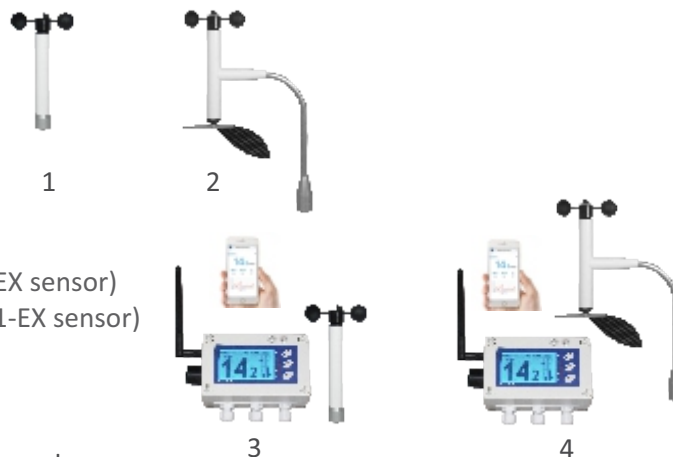
- 1 **WS 011-1-EX**
- 2 **WSD 011-1-EX**

Sets with display unit included

- 3 **W410XB/WSEX** (W410XB/D display unit, WS 011-1-EX sensor)
- 4 **W410XB/WSDEX** (W410XB/D display unit, WSD 011-1-EX sensor)

Options

- Individually wind tunnel tested sensors with calibration report



SPARE PARTS

- 1 Spare anemometer cups
- 2 Spare wind vane
- 3 WS sensor head with bearings
- 4 WSD sensor head with bearings



COMPATIBLE WITH RANGE OF NAVIS DISPLAY/RECEIVER UNITS



W410/W410BAT



WL12



WR3-B



W301



W110

TECHNICAL DATA

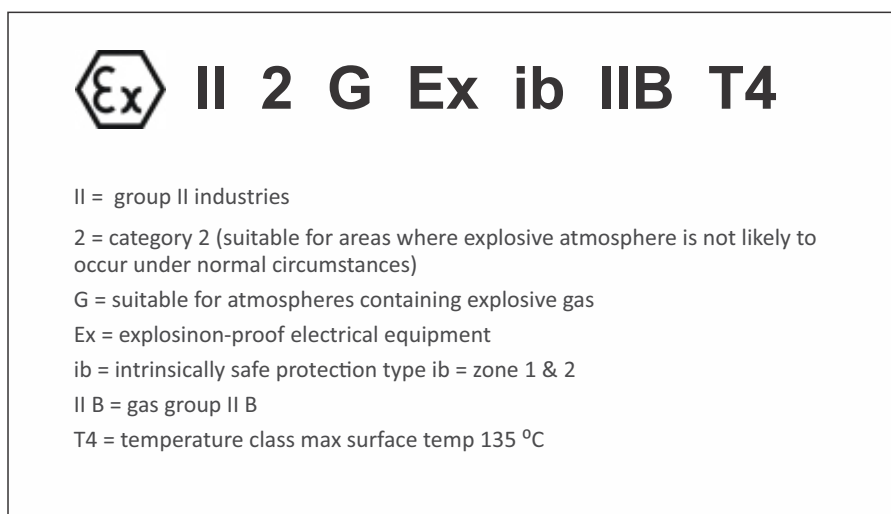
Wind speed measurement range:	0,6 - 50 m/s
Temperature measurement range:	-30 ... +55 °C
Data transmission rate:	every 2 seconds
Wind speed resolution:	0,1 m/s
Temperature resolution:	0,5 °C or 1 °C (depends from display unit)
Accuracy wind speed:	+/- 2,5 %
Accuracy temperature:	+/- 1 °C
Operating Frequency:	868 MHz
Output power:	+15 dB (32 mW)
Temperature operating range:	-30 °C - +55 °C
Battery (included):.....	3,6V AA Lithium battery, Type: LS14500EX, Producer: SAFT
Battery life time:	up to 3 years
Bearings (replaceable):	2 x precision stainless steel Ball bearings
Material - cups (replaceable):	PA (Polyamide)
Dimensions:	height 210 mm, overall diameter cup to cup 120 mm
Mounting:	sensors to be mounted on a vertical pipe with 20 mm diameter

ADDITIONALLY FOR WSD 011-1-EX SENSOR

Wind direction measurement range:	0 - 360 °, no blank sector, contactless magnetic measuring principle
Wind direction resolution:	1 °
Accuracy wind direction:	+/- 2.5 °
Material - vane (replaceable):	Carbon/AL
Dimensions (without holder):	height 240 mm



CERTIFICATE



MARKINGS

