



NAVIS

WIRELESS WIND SENSORS FOR POTENTIALLY EXPLOSIVE ENVIRONMENTS

Wind speed: WS 011-1A-EX

Wind speed & direction: WSD 011-1A-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 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



NAVIS

INTRODUCTION

Navis **WS 011-1A-EX** & **WSD 011-1A-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.

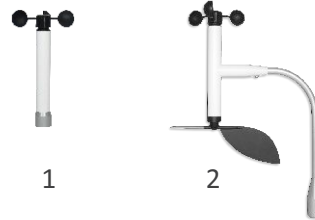
INSTALLATION AREAS

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 011-1A-EX**
- 2 **WSD 011-1A-EX**



Options

- Individually wind tunnel tested sensors with calibration report

COMPATIBLE NAVIS DISPLAY/RECEIVER UNITS (non ATEX certified)



W410



WL12



WR5



WR3-B



W110

SPARE PARTS

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

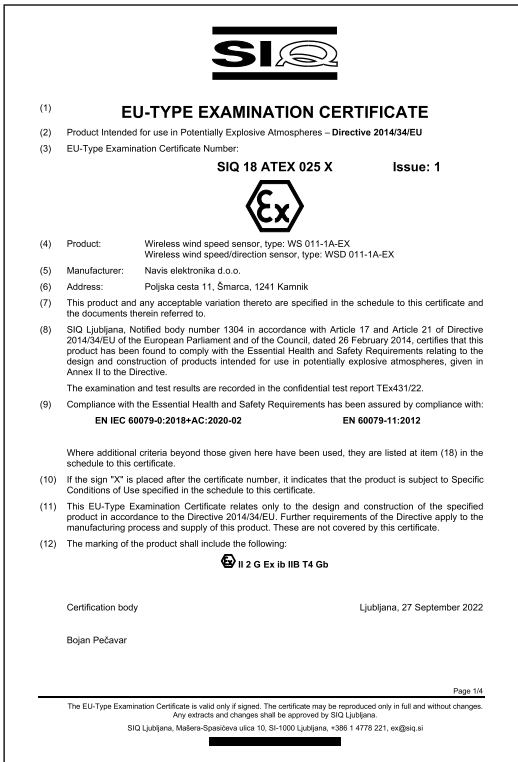


TECHNICAL DATA

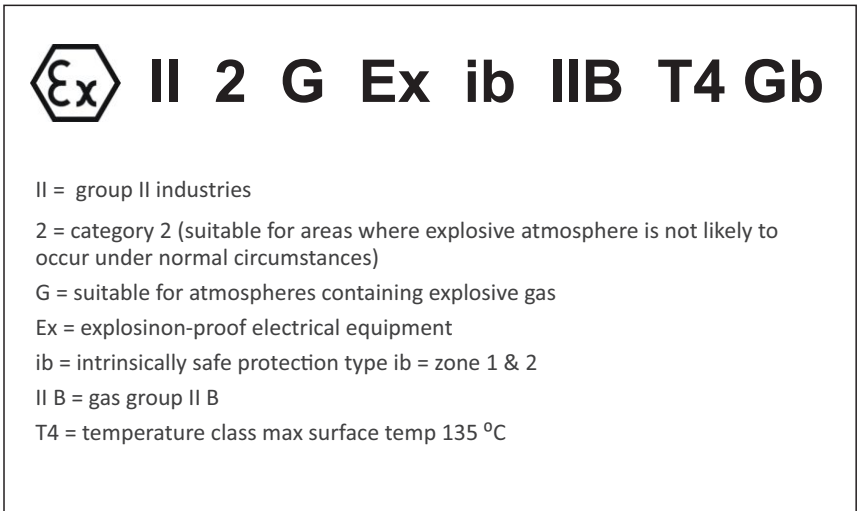
Wind speed measurement range: 0,6 - 50 m/s
 Temperature measurement range: -30 ... +55 °C
 Data transmission rate: every 0,5; 1 or 2 seconds
 Wind speed resolution: 0,1 m/s
 Temperature resolution: 0,1, or 1 °C (depends from display unit)
 Accuracy wind speed: +/- 2,5 %
 Accuracy temperature: +/- 0,4 °C
 Operating Frequency: 868 MHz
 Output power: +14 dB (25 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 °
 Battery life time: up to 2 years
 Dimensions (without holder): height 240 mm



CERTIFICATE



MARKINGS