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Trimble GS020-V2 Wireless Wind Speed Sensor



Features

- Wind speed measurement range: 4mph to over 100 mph (6.4 to 161 km/h)
- Wind accuracy: +/- 3 mph maximum (typical 1 mph)
- Total error non-linearity and repeatability: <2%
- Radio range with line of sight: 4300 ft. (1300 m)
- Operates with one 'D' cell battery lithium 3.6V.
- Up to 3 years battery life for typical applications.
- Average of 12 months battery life for 24/24 hours use.
- Temperature range: -31°F to 185°F (-35°C to 85°C)
- Waterproof casing.
- Two-way communication with automatic radio power adjustment.



Figure 1, Wireless Wind Speed P/N GS020-V2

Applications

The GS020-V2 anemometer can be used in various types of applications to monitor wind speed and wind gust. It is designed to be used on moving crane and can also be used in a static condition.

General Description

The GS020-V2 is a battery-powered, stand-alone devices with no interconnecting cables. It utilizes a dual coil construction and generates voltage output proportional to wind speed. Its low moment of inertia and unique bearings permit very rapid response to gusts and lulls.

Because of their output linearity these sensors are ideal for use with various data retrieval systems

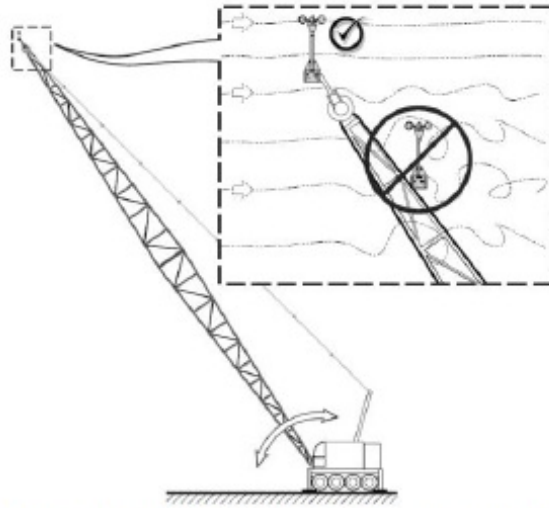


Figure 2, Wind Speed installation on crane boom

Ordering Information

Model	Description
GS020-V2	Wind Speed Sensor – FCC (916 MHz).
GS020-CSA-V2	Wind Speed Certified Class 1 Division 1, Suitable for Div 1 & Div 2 .
GS020-CE-V2	Wind Speed Sensor – CE (868 MHz).

Specifications

Parameter	Test Condition	Min	Typ	Max	Unit
Wind					
Threshold			1.75		mph
Accuracy			+/- 1	+/- 3	mph
Radio Power					
	GS020-V2		0.005 4		W

			7		dBm
	GS020-CE-V2	0.01	0.012	0.015	W
		10	11	12	dBm
Radio Frequency					
	GS020-V2	903	916	927	MHz
	GS020-CE-V2	868	868	870	MHz
Communication Range					
	Clear line of sight		1300		m
			4300		feet
Battery life					
40 hour/week	‘D’ cell lithium		36		Mont h
24/24 hours	‘D’ cell lithium		12		Mont h
Other					
Weight	GS020-V2		6 2700		lb g

Absolute Maximum Ratings

Parameter	Test Condition	Min	Typ	Max	Unit
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Temperature range	Operating	-35 -31		85 +185	°C °F
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Certifications

- FCC/IC/CE certification – FCC Part 15 Subpart C 15.247,15.205, 15.207 & 15.209
- ETSI EN 300 220 (AA)
- EMI/C: EN 61000-4-3, EN 301 489-1 – Clause 8.2
- CSA Certificate Number – 80130757
- CSA C22.2 No. 60079-0:19, 60079-11:14 (R2018), 61010-1-12, Update 1&2, Amd1:2018 UL 60079-0-2020, UL 60079-11-2018, UL 61010-1-2018
- Class I, Division 1, Group A, B, C & D T4
- Ex ia IIC T4 Ga
- Class I, Zone 0, AEx ia IIC T4 Ga
- Ambient Temperature: -20°C to 40°C.

WARNING: Only use Tadiran TL-5930 3.6V or Saft LS33600 cell 3.6V text.

WARNING: “Potential Electrostatic Charging Hazard” – See Instruction (for Wind Speed Sensor GS020-CSA-V2 only)

Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore, the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. In addition, the equipment shall only be cleaned with a damp cloth.

Dimensions and Installation

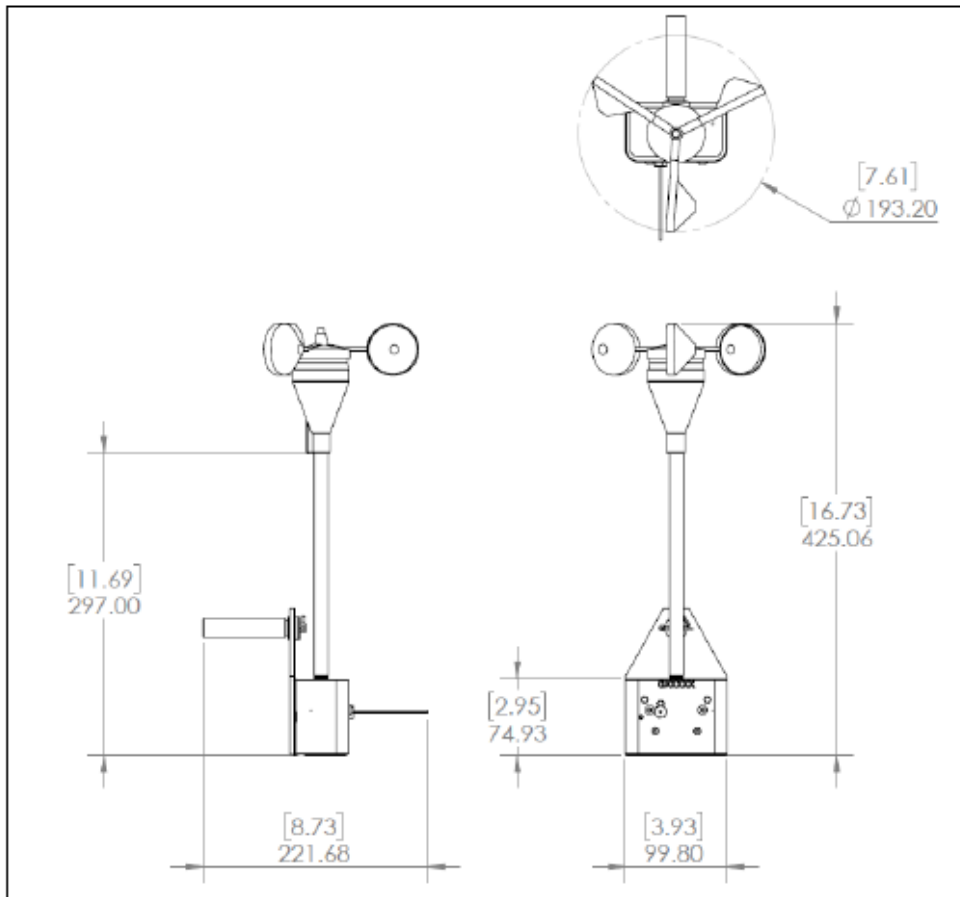


Figure 3: General dimensions (not to scale), in inches [mm]

For optimal performance, the anemometer should be installed in a place where the wind can flow freely with no obstruction or perturbation. See Figure 2. The utilization of the GS020-V2 Anemometer is not limited to crane industry. It can also be used on any static structures.

Materials

The black Lexan cups (virtually shatterproof) have thermal properties that let it resist and shed icing far more effectively than metal assemblies.

PMN: GS020-V2

HVIN: MB106_M-03

FCC Compliance Statement (USA)

FCC ID: S9E-GS200B

Compliance Statements: This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including, an interference that may cause undesired operation.

Caution Statements

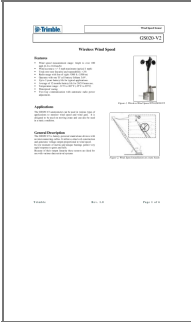
- Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
- This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.

Information to the User

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Documents / Resources



[Trimble GS020-V2 Wireless Wind Speed Sensor \[pdf\]](#) Owner's Manual
S9E-GS200B, S9EGS200B, gs200b, GS020-V2 Wireless Wind Speed Se
nsor, Wireless Wind Speed Sensor, Wind Speed Sensor, Speed Sensor

References

- [User Manual](#)

Trimble

GS020-V2 Wireless Wind Speed Sensor, gs200b, S9E-GS200B, S9EGS200B, Speed Sensor, Trimble, Wind Speed Sensor, Wireless Wind Speed Sensor

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[Trimble GS200C Wireless Level Sensor Instruction Manual](#)

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