WINDCRANE Mini Jib End Kit
Installation Guide

Designed to be mounted to the jib end on a mobile or crawler crane.
Operates from a 12-24V auxiliary supply.
Anemometer must be mounted on a customer-supplied gimbal or bracket to suit the particular crane.
Applies to WINDCRANE Mini hardware 12-24VDC operation with S20 anemometer

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Installation

1. Mount anemometer using clamp to suitable stub mast or gimbal/pendulum.
2. Run cable back to logger and connect male M12 plug to logger input.
3. Mount WINDCRANE unit to jib using supplied straps or suitable bracket/cradle.
4. Connect the power to 12-24V DC source, for example the aviation light.
5. View your Windcrane data online via phone or computer

Anemometer Mounting

The sensor includes a 250mm tubular mounting pole, weatherproof PVC boot and pre-wired output cable with M12 connector.

1. Mount the sensor onto your gimbal/bracket using suitable fixings. Fit the anemometer at the highest point on the crane and away from any obstacles that could affect air flow. Ensure the sensor is secure and mounted vertically.
2. Secure the output cable to the mount tube and the gimbal bracket, allowing a loop with plenty of slack for the gimbal to rotate.

Logger Mounting & Wiring

1. Attach the logger enclosure to a suitable flat surface on the jib structure, in a position that will not interfere with crane operations or be subject to impacts or stresses.
2. Use the straps, steel lanyard or a suitable cradle/bracket to securely attach it, and ensure that any crane safety regulations are followed.
3. Do not enclose the logger inside metal cabinets or gratings, as the cellular network antenna is built into the top/front of the WINDCRANE enclosure.
4. Connect the sensor to WINDCRANE logger using M12 sensor cable. Mate the connectors carefully, then hand-tighten threaded fasteners to secure and waterproof the connection.

Operation

1. Connect the power input cable to a 12-24V DC source.

The logger can be supplied from an auxiliary circuit capable of providing 300mA peak current. Ideally use a circuit that can stay powered when the crane is off, such as the aviation warning light, so that the logger provides continuous data. Its very low power consumption won't drain the crane battery.

Access Windcrane on Fleet or Mobile App

1. Login via your phone browser or computer to the Fleet Dashboard: ft.windcrane.com/ (Web version of the app with extended features for Maps and Wind reports)
2. Install WINDCRANE Go app on your Android or iOS device:

Download on the App Store GET IT ON Google Play

Need Help?

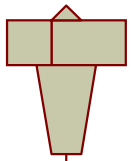
Email: support@windcrane.com
Phone: +44 141 5856496
Whatsapp: +44 741593478

WINDCRANE Mini Jib-End Logger Wiring for Mobile/Crawler with WINDCRANE S20 Anemometer and M12 Power

This diagram shows typical wiring for logger hardware version 1.12 with:
* 12-24 VDC power from aviation warning light or anemometer supply circuit via M12 cable tail
* WINDCRANE S20 anemometer connected to logger via included M12 cable tail

WINDCRANE anemometer to be mounted vertically on jib end (gimbal mounting recommended)

NOTE: Calibrated anemometers must be matched to configured WINDCRANE logger. Check serial numbers if changing sensor or logger.



Pre-wired cable tail with M12 Female connector

Pre-wired cable tail with M12 Male connector

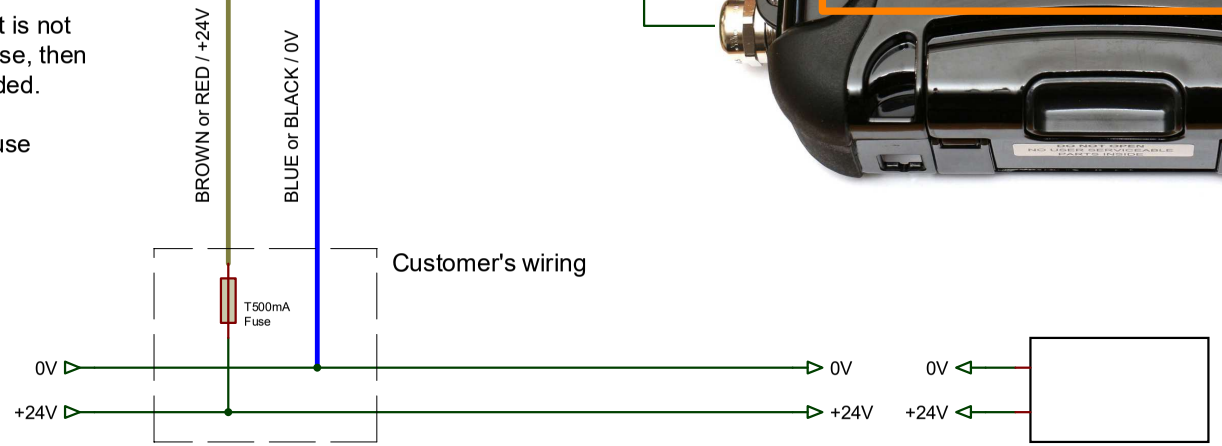
Mounting Note:
Do not cover or obstruct the labelled front and narrow top end of the WINDCRANE enclosure. The cellular and GPS receiver antennas are located here and must be free of obstructions for reliable signal reception.

Mount the logger with the antenna end facing up, labelled front outwards, and cable glands downwards.

Internal antennas under marked area

If external 12-24 VDC supply circuit is not already protected with a suitable fuse, then adding an inline fuse is recommended.

Use time-lag / slow-blow 500 mA fuse (not supplied), for example:
Littelfuse 218.500MXP
Eaton Bussmann S506-500-R



Existing aviation warning light

Logger power may be taken from existing anemometer supply or aviation light circuit.

WINDCRANE Logger operating supply range 9 - 30 VDC (12-24 V typical)

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