

**Entry Level
Wind System**



Important

Suitability: the Entry Level Wind System is only recommended for use on cruising boats up to 10.5m (35ft). For larger boats and for racing please consider the mn100 Micronet Range.

If installing to a boat of aluminium, steel or Carbon Fibre construction, please consult www.tacktick.com for installation advice.

Aid to navigation: like any other electronic instruments your Micronet system is designed to serve only as an aid to navigation and it remains the skippers responsibility to maintain a permanent watch and be aware of developing situations.

Dismantling the product: any attempt to take a Micronet product apart will invalidate the warranty.

Safety and disposal: do not dispose of any instrument in domestic waste. Refer to regulations in force in your country. If in doubt return the instrument to Tacktick Ltd. for correct disposal.

EMC conformance: All Tacktick equipment is designed to the best industry standards for use in the recreational marine environment. The design and manufacture of Tacktick equipment conforms to the appropriate Electromagnetic Compatibility (EMC) standards. Correct installation is required to ensure that performance is not compromised.

Key Features and Benefits

Completely wireless Wind Transmitter. The Wind Transmitter is solar powered and requires no external power supply. It communicates wirelessly with any Tacktick Micronet display.

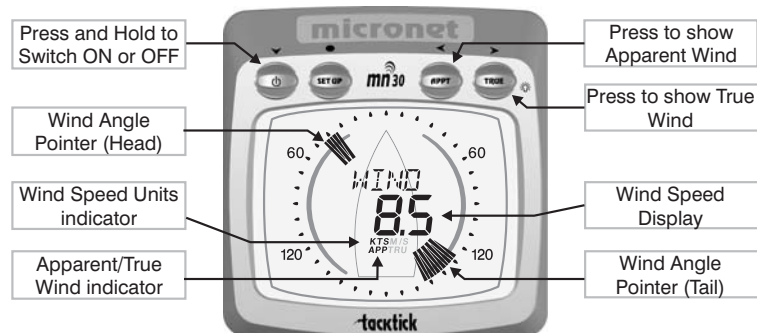
Ultra low power requirement. The innovative Micronet technology means the Entry Level Wind System draws just 1mA from the boats battery.


Simple installation. The only cable required is a connection from the display to the boat's electrical supply. There are no data cables to run and absolutely no cables to go up and down the mast. No large holes to cut for the display boss, just a small 1" (24mm) hole for the power cable.


Completely waterproof. All Tacktick products are completely waterproof so there can be no misting of displays or leakages even if the products are completely submerged.

Large, clear, analogue display. The Entry Level Wind Display with its large wind arrow, intuitive functionality and high quality LCD digits provides very clear, easy to read information.

Operation



i To allow your Wind Display to switch on automatically when the power is turned on at the main panel, set the Master function in setup to ON (see page 4). Tacktick recommend that the system is switched off using the  key.

True Wind information is only available if speed data is present on the Micronet network. Otherwise, pressing  will show "NO trU" for 5 seconds; the display will continue to show Apparent Wind information.


i To obtain speed data you should install a Tacktick Speed and Depth system (or a GPS and NMEA Interface).

Keylock

When Keylock is enabled, the system is protected from accidental key presses. To temporarily unlock the keys:

“KEY LOC” Indicates the keys are locked

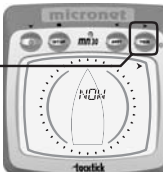
Indicates the next key to press




Press **APPT** <

Press **TRUE** > to unlock the keys

The keys re-lock after one minute



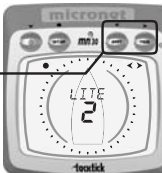
Controlling the backlighting



Press and hold **TRUE**

Use **APPT** < & **TRUE** > to select level 1 to 3

Backlight control exits after 5 seconds




Setup

Setup operation

Press and hold **SET UP** to enter Setup

Press **⏻** & **⏷** to move to next Chapter



Use **APPT** < & **TRUE** > to select Pages

i You must go to the chapter heading before changing chapter.

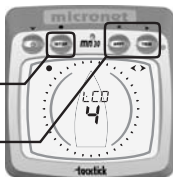
Editing setup data

To edit a value or select from a list

Press **SET UP** to begin


APPT < & **TRUE** > to set the value

SET UP to confirm



To switch between two alternatives

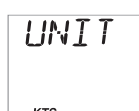
Press **SET UP** to switch the setting



Setup Chapters and Pages

In the Page descriptions below, default settings are shown in bold.

Units chapter



Wind speed units

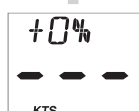
Sets the units in which Wind Speed is displayed. The options are: **KTS (Knots)** or M/S (meters per second).

Wind chapter



Wind angle

A calibration function used to ensure the displayed apparent wind angle is correctly aligned with the actual wind angle with respect to the boat. See page 6 for the calibration process.



Wind speed

A calibration function used to ensure the displayed wind speed is correct.

Options chapter



Auto networking

Used to add additional devices to the Micronet network. Refer to www.tactick.com for details.



Keylock

Enables or disables the Keylock function, which can protect against accidental presses. The options are: **Off** / On



Backlight control

Configures the display to control the system Backlighting or just its own Backlighting. The options are: **nEt (network)** / LOC (local).



Master

To configure your system to switch on automatically when the power is switched on at the main panel, set to ON. The default is **OFF**.



Warning: if you have more than one Micronet display you must ensure that only one of these displays has the Master parameter set to ON.

English



Boat show

Used for demonstration purposes only, this function allows the display of information when the Wind Display is NOT installed as part of a Micronet system. The options are: **Off** / On.



LCD contrast

Adjusts the contrast of the LCD display to optimise visibility. The available values are: 1 - 7, **default 4**.



Pointer

Pressing  switches the pointer tail **on** or off.



Reset

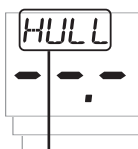
Returns all settings to their default values.

Health chapter



Display status

The software version of the Wind Display is shown on the top line of the display. If the display is the "Master" (see page 7), the number of items (nodes) in the system is shown on the bottom line. Otherwise, the signal strength to the "Master" is shown.



System status

Shows the software version (before the decimal point), signal strength (after the decimal point) and battery condition (level and charge rate) for the transmitters connected to the system

Text identifies the transmitters as follows:

- HULL - Hull Transmitter
- WIND - Wind Transmitter
- NMEA - NMEA Interface
- MAST - Mast Angle Sensor
- MOB - Man overboard Transmitter

Installation

Installing the Wind Display

Tools required: 5mm (3/16 inch) drill bit
24mm (1 inch) hole saw (or 12mm (1/2 inch) drill bit)
Power Drill

Parts supplied: Mounting Template (from the back of this user guide)
Mounting studs with thumbnuts (3)
Crimp receptacles (4)

Positioning the display

For best wireless performance, tacktick recommend that the display is mounted on a GRP or acrylic surface.

Select a flat, smooth, surface that has access to the rear for the power supply cable and the studs and thumbnuts.

If installing more than one display leave space between them for sun covers.

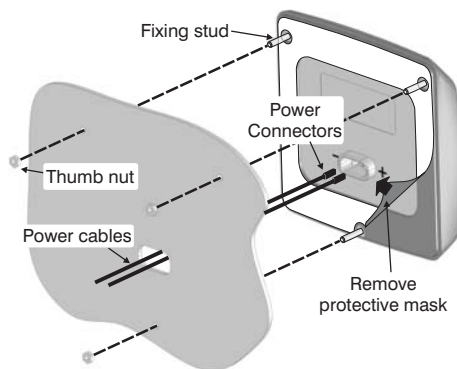
Avoid areas where damage may occur (winch handles, feet, warps etc.)

Check for clarity of vision and ease of access to the control keys.

Warning: *it is recommended that displays are NOT positioned where your arm must pass through the steering wheel to operate the keys.*

Mounting

Position the Template carefully before starting.



1. Drill the three 5mm holes marked "A" on the template.
2. Using a hole saw cut the 24mm hole marked "P" on the template. Alternatively, drill two 12mm holes and smooth them together with a sharp knife or small file.
3. Remove the protective mask.
4. Pass the power cable through the hole and push the receptacles firmly onto the spades on the rear of the display, taking care to ensure the correct polarity.
5. Screw the three studs provided into the holes in the back of the display.
6. Place the display in position, pushing the three studs through the holes.
7. Secure the display using the thumbnuts, making sure it is level before final tightening. Do not tighten hard.
8. Support the power cable by securing it to a fixing stud with a cable tie.

Installing the Wind Transmitter

See the separate installation guide for the Wind Transmitter.

Calibration



After installation, the Wind Angle should be calibrated:

Motor the vessel directly into the wind.



Go to the Wind Angle page in Setup (see page 3)

Press **SET UP**

Use **APPT**  and **TRUE**  to bring the lower larger digits to 000°. The upper smaller digits show the number of degrees of offset entered.



Press **SET UP** to exit Edit Mode

Press and hold **SET UP** to exit Setup.

Maintenance

To clean, use only a damp, soft cloth. No detergents, solvents or abrasives should be used. Use of chemicals will invalidate the warranty. Ensure the sun cover is fitted to the instrument when cleaning the boat.

Fault Finding and Correction

Data is shown as dashes.

Communication between the Wind Transmitter and the Wind Display may have been lost. Switch off the system, wait for thirty seconds and switch on.

Enter Setup (page 2) and scroll to the Health Chapter. Check the signal level of the Wind Transmitter. '--.-' displayed means no communication from the Wind Transmitter. A value after the decimal place will indicate a signal strength 0-9, nine is strongest.

Wind speed is shown as zero.

If the anemometer cups are turning and the wind speed is shown as 0 then there is a problem with your Wind Transmitter.

Lost Network alarm sounds

This can only occur if there is more than one Micronet display on your network. The display showing the alarm has lost communication with the Master. The display will power down shortly after sounding the alarm.

This may occur when powering down the system by switching off at the breaker, this does not indicate a problem. In other cases, switch off the system, wait for thirty seconds and switch back on.

i *The Master is the display with the Master setup parameter set to ON. If no display has this parameter set, the display that was used to switch on the system will be the master.*

The system behaves erratically after powering on.

This may occur if the breaker is switched off and rapidly back on, or if **Ⓟ** is pressed on a display immediately after switching on the system from the breaker. Switch off, wait for thirty seconds and switch back on.

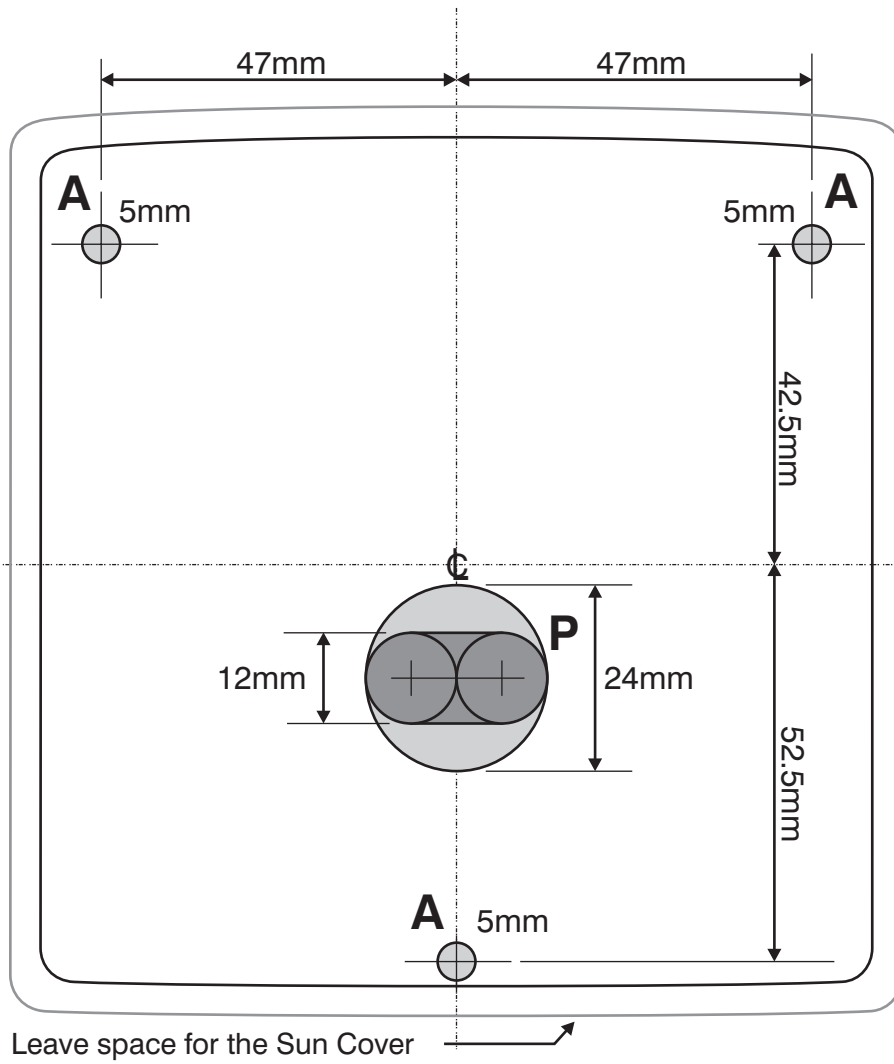
For other problems

Contact your Tacktick Dealer/Distributor (see www.tacktick.com), providing detailed information of the fault and your contact details. Other helpful information required if possible: boat make/model/construction type and current location plus a list of other Micronet items fitted.

Specifications

| | |
|---------------------------|--|
| Height of digits: | 14mm (0.55 inch) |
| Backlighting: | 3 levels with daylight shutoff System-wide or local control |
| Power supply: | 9 to 30 volts DC |
| Power consumption: | 1mA (5mA with maximum backlighting) |
| Units of display: | Wind Speed in Knots, Metres per Second |
| Alarms: | Audible Alarm for Lost Network |
| Weight: | 285g (0.63lbs) |
| Operating Temp.: | -10 ^o to +60 ^o C (14 ^o to 140 ^o F) |
| Frequency: | 868 MHz or 916 MHz |

Installation Template





U090 - rev02