

Walker 2050




Combined Masthead Unit Wind Data System

Walker 2050 is a new wind system designed for use on all types of vessel. The system utilises a combined wind speed and direction masthead unit featuring a single point mounting which simplifies installation and reduces space requirements on crowded masts.

The display instruments are of standard industry DIN 144 size and feature large analogue readouts as used on Walker 2040 and 2060 systems.

The indicators incorporate integral through-dial back illumination with integral dimming control. Pointer tips are illuminated by beta lights.

 Type Approved To EMC European Directive IEC 0945



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Features

- Combined speed and direction sensors in a single masthead unit
- Lightweight and compact
- Simple to install
- Large industry standard DIN 144 displays with integral dimming
- Displays available for relative measurement to ships head or true measurement with cardinal points for fixed site installations
- Alarm box available for pre-set maximum wind speed signalling

Masthead Unit

Speed:

A rotating cup unit containing an optical shutter LED light and phototransistor. Pulse signals are processed in the speed indicator.

Direction:

The vane unit contains a precision 360° rotatable 'desynn' potentiometer which connects to the direction indicator via the 20 metre cable supplied with the masthead unit, longer lengths are available.

Displays

Speed:

The speed display indicator contains a 240° analogue movement calibrated from 0-80 knots.

The unit also contains electronics for processing the pulses from the cup unit.

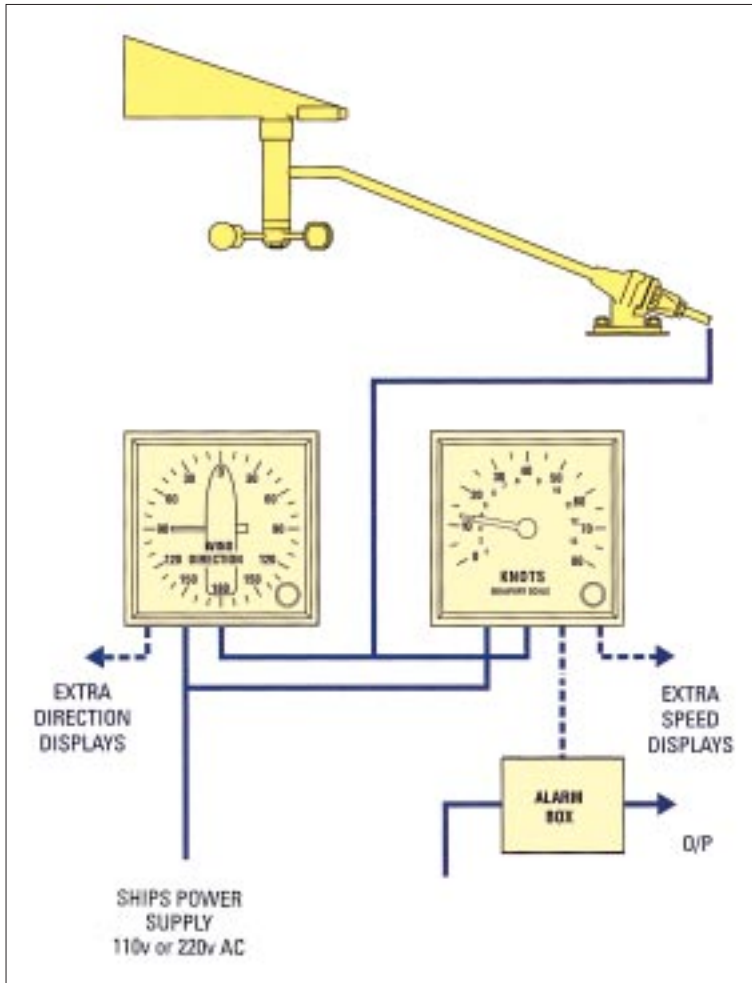
Direction

A 360° freely rotating 'dc synchro' drives the indicator pointer in phase with the wind vane in the masthead unit. The dial is calibrated relative to the ships head $\pm 180^\circ$.

Other dials are available for fixed site installations calibrated 0-360° with cardinal points. This indicator also contains the DC power supply to produce the energising voltage to the masthead unit.

Power Supply

The system can be configured to operate from 110/220v AC or 24v DC supply. Supplies must be specified when ordering.



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Walker 2050 is a new wind speed and direction indicator which integrates the combined Masthead Unit MH 1 0A used with the popular Walker WINDSET 2 system and the wind speed and wind direction indicators as used in the Walker 2040 and 2060 systems. These indicators are 144mm square size to DIN 43700 pattern.

This system meets the requirements for a single masthead fixing.

The Walker 2050 is lightweight, compact and is simple to install and provides an attractive, cost effective solution to the need to accurately measure wind speed and direction.

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Installation

Mechanical Dimensions.

Combined Masthead Unit

- Length 537mm max including vane.
- Horizontal extension from centre line of fixing to centre line of vane and cup unit 360.4mm
- Diameter (turning) of vane \varnothing 268mm
- Height 308mm overall from mounting base to top of vane unit

DIN 144 Displays

- 144 x 144 x 105mm
- Bezel fixing centres (optional) 160.3mm x 160.3mm
- Overall Bezel size 178 x 178 x 3mm

Weights

Combined Masthead Unit: 0.52kg

DIN144 Indicators 1.4kg each (approx)

Electrical Requirements

Power Supply: 110/220v AC 50/60Hz
Must be specified when ordering
24v DC available as an option. Must be specified when ordering.

Power Requirements. 1.0 VA (AC) or 6W (DC)

System Specification

Accuracy: Speed 3% FSD, 0-80 knots
Starting Speed: 2.5 knots
Direction. $\pm 3^\circ$ from true alignment

Displays: Analogue
Speed 240° meter movement
Direction. Full 360° rotation
Illumination, dimmable

Masthead Unit: Speed Rotating cups
Direction: Wind Vane
Cable Standard 20 metres, longer lengths available

Interfaces

Speed: Connections for up to two additional indicators.
Connection to optional alarm box for max speed signalling by passive relay contacts

Direction: Connections for up to two additional indicators



Proven Accuracy
and Reliability