

# Walker 2060



## Large Vessel & Commercial Wind Data

Walker 2060 is a proven wind system designed for use on all types of large and high speed vessels. The system utilises twin heavy duty speed and direction masthead units featuring independent mounting capability. Both masthead units and indicators are shock tested (half-sine) and type approved.

The display instruments are of standard industry DIN 144 size and feature large analogue readouts similar to those used on Walker 2040 and 2050 systems. See over for optional outputs.

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

- Heavy duty speed and direction sensors
- Robust construction
- 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 or adjustable maximum wind speed signalling
- Electronic dimmer control included.
- Electronic converter available for 0-10vDC, or 0-10mA or 4-20mA.
- Walker 2099 interface available for NMEA 0183 serial data output.
- Chart recorders available for WS/WD.

### Masthead Unit

#### Speed:

A rotating cup unit containing an optical shutter, LED light and phototransistor. Pulse signals are processed in the speed indicator. (20 meter cable assembly screened). Longer lengths available to order.

#### 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 0-80 knots and beaufort scale. Alternative ranges available to special order. 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 220v AC or 110v AC supply. Supplies must be specified when ordering.

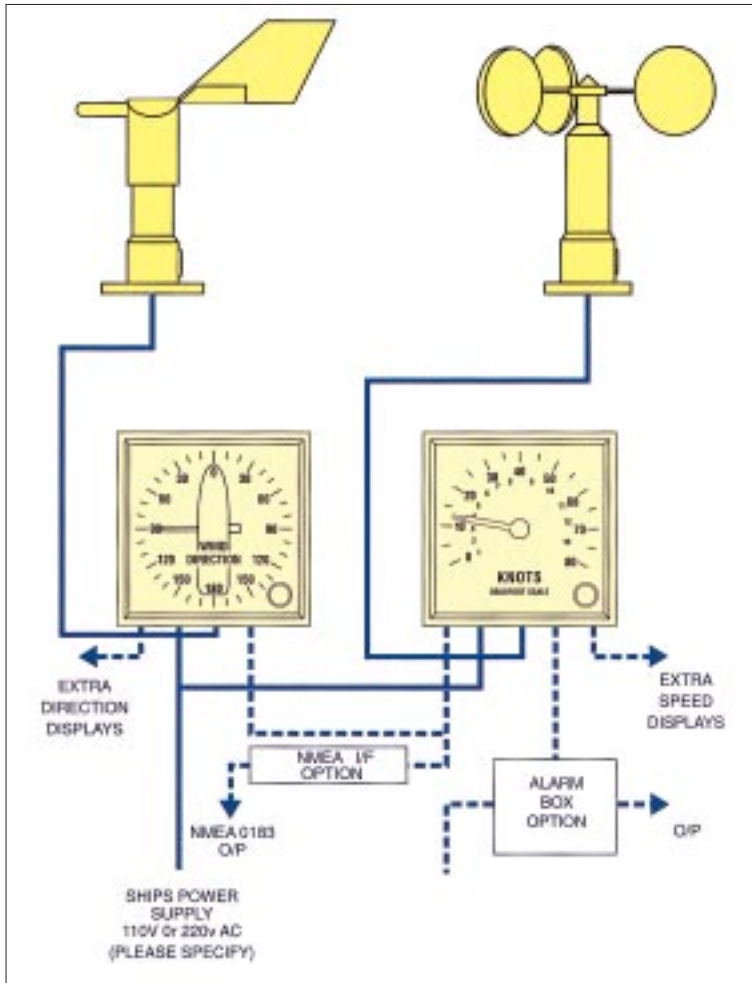
ALTERNATIVE WALKER WIND DATA SYSTEMS

**2040**

Merchant ships wind data system

**2050**

Combined masthead wind data system.



## Large Vessel & Commercial Wind Data System

### Walker 2060

Walker 2060 is a proven wind speed and direction system which integrates the top of the range Walker heavy duty masthead units with the Walker industry standard DIN 144 wind speed and wind direction indicators as used in the Walker 2040 and 2050 systems. These indicators are 144mm square size to DIN 43700 pattern. This system meets the requirements for twin heavy duty masthead fixing.

The Walker 2060 is rugged, reliable and provides an attractive, flexible solution to the need to accurately measure wind speed and direction, with optional retransmit facilities.

**CE** Type Approved To EMC European Directive IEC 0945

#### Installation

##### Mechanical Dimensions:

- Windspeed Masthead Unit
  - 318mm x (328mm cup turning Ø).
- Wind Direction Masthead Unit
  - 358mm x (456mm vane turning Ø).
- DIN144 Displays
  - H144x 144x 105mm
  - Bezel fixing centres (optional) 160.3mm x 1603mm
  - Overall Bezel size 178 x 178 x 3 mm

#### Weights

- Wind Speed Masthead Unit: 1.5 kg
- Wind Direction Masthead Unit: 1.5 kg
- DIN 144 Indicators: 1.4kg each (approx)
- Weight of Cables not included.

#### Electrical Requirements

- Power Supply: 110/220.v AC 50/60hz
- Must be specific when ordering

#### IP Rating

- Masthead Units: IP65 (When correctly mounted)
- Indicator: IP52
- Power Requirements: 10 VA (AC)

#### 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 (red)
- Masthead Unit:**
  - Speed Rotating cups
  - Direction: Wind Vane Cable
  - Standard 20 metres, assemblies, (longer lengths available at extra cost)

#### 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

#### Options

- 2099:** To facilitate NMBA outputs (Note: 24v DC Power Supply required)
- Electronic convertor:** configured for 0 to 10.v DC. or 0 to 10mA or 4 to 20mA
- Alarm Box:** for maximum speed Signalling by passive relay contacts.



**Proven Accuracy and Reliability**