CALYPSO
instruments

ULTRASONIC · HANDHELD · CMI1094

# HANDHELD WEATHER

A precision weather station in the palm of your hand: wind speed and direction, temperature, humidity and pressure.

DAME DESIGN AWARDS · CALYPSOINSTRUMENTS.COM

THE GAP IN THE HAND

# A Weather Station, or a Handheld. Never Both.

## WHAT THE FIELD HAS TODAY

Full weather stations are fixed, mounted installations

Spinning cups and vanes wear, jam and drift out of calibration

## WHAT THE FIELD ASKS FOR

Five readings on one screen, one instrument to carry

Solid-state sensing with nothing to wear out

A physical keypad that never misses an input

THE OPPORTUNITY

The first compact, lightweight unit to combine ultrasonic wind measurement with temperature, humidity and pressure.

SOLID STATE · NO MOVING PARTS

# Five Readings, One Instrument

Wind speed and direction, plus temperature, humidity and pressure.

| | | |
|---|---|---|
| 0.5–45<br>M/S WIND SPEED | 0–359°<br>WIND DIRECTION | –15/60<br>°C TEMPERATURE |
| 10–90<br>% HUMIDITY | 500–1200<br>HPA PRESSURE | 1 Hz<br>SAMPLE RATE |


ULTRASONIC HEAD · 4 TRANSDUCERS

# A New Category of Field Instrument

01

### Wind Plus Weather

Ultrasonic wind speed and direction alongside temperature, humidity and pressure.

02

### Color Display

A 1.44" full-color TFT panel with a summary screen and one screen per sensor.

03

### Physical Keypad

One-handed control that keeps working wet, gloved, or salt-sprayed.

04

### 180 g, IP66

Ø43 × 150 mm in injected engineering plastic, sealed for weather and spray.

05

### No Moving Parts

Solid-state sensing — nothing to wear, jam, or drift out of calibration.

06

### AA + USB-C Power

A replaceable AA cell in the field; USB-C static mode for continuous monitoring.

07

### BLE 5.1 + Logging

On-device data logging, exported and graphed over Bluetooth in AnemoTracker.

08

### Tripod or Hand

A 1/4" thread and included tripod mount turn the handheld into a fixed station.


INDUSTRIAL DESIGN

# Built Around the Hand, Not the Lab

01 **One-Handed Operation**

Nine keys, all reachable with a thumb. Up and down step through the five reading screens; right opens the min, average and max for that sensor.

02 **Works in Gloves and Spray**

A physical keypad, not a touchscreen, so wet hands and salt spray never cause a missed input.

03 **Readable Day and Night**

A stepped backlight, a night mode that inverts the panel, and an eco mode that trims everything down to protect the battery.

04 **Carried, Not Installed**

180 g on a wrist lanyard, with an alignment mark for orienting to north and a tripod thread when the reading has to stay put.

ENVIRONMENTAL STATEMENT

# Designed to Last, Not to Be Replaced

One instrument instead of two and a battery you can change

01

## One Instrument, Not Two

Wind and weather in a single 180 g unit means one device manufactured, shipped and eventually recycled instead of two.

02

## No Moving Parts

Solid-state ultrasonic sensing outlasts mechanical cup-and-vane designs and needs almost no maintenance — only clean, aligned transducers.

03

## Replaceable Power

A standard AA cell behind a captive screw so the battery gets replaced, not the instrument.

04

## Made in Zaragoza

Built in-house in Spain, close to our main customer base, and shipped in a cardboard box rather than foam or plastic inserts.

# Technical Specifications

| | |
|---|---|
| Wind speed | 0.5 – 45 m/s (1.12 – 100 mph) |
| Speed accuracy | 0.3 m/s or 3% (0–16 m/s) · 5% (16–45 m/s) |
| Wind direction | 0 – 359° · resolution 1° |
| Direction accuracy | 3° (1–5 m/s) · 1° (5–16 m/s) · 6° (16–45 m/s) |
| Temperature | –15 to 60 °C · ±0.5 °C at 25 °C · res. 0.01 °C |
| Humidity | 10 – 90 % · ±3.5 % · res. 1 % |
| Pressure | 500 – 1200 hPa · ±1 hPa · res. 0.1 hPa |
| Sensors | 4× ultrasonic transducers · SHT40 · DPS368 · NTC |
| Sample rate | 1 Hz |

| | |
|---|---|
| Display | 1.44" full-color TFT LCD · 128 × 128 px |
| Power | Lithium AA battery · USB-C in static mode |
| Connectivity | Bluetooth BLE 5.1 or beyond · ~30 m open space |
| Firmware | Upgradable over Bluetooth |
| Configurable units | m/s · km/h · knots · mph · °C/°F/K · hPa/inHg/mmHg/kPa/atm |
| Dimensions | Ø 43 mm × 150 mm (1.69 × 5.91 in.) · 180 g |
| Material | Injected engineering plastic (grey) |
| Environmental | IP66 · –15 / 60 °C · 10 – 90 %RH |
| Mount | 1/4" female thread · tripod mount included |

Every unit is calibrated to the same standard.

PEDIGREE

# Twelve Years of Ultrasonic Know-How

## 2014

### The original

First wireless, solar-powered masthead sensor.

DAME DESIGN AWARD

## 2017

### Portable Solar

DAME Award nominee. The cruiser classic fit & forget.

DAME DESIGN AWARDS SPECIAL MENTION 2021

## 2021

### Ultrasonic Portable Mini

DAME Special Mention. Smallest ultrasonic on the market.

## 2026

### Handheld WEATHER

The same sensing core, in the hand. Wind, temperature, humidity and pressure.

More than 50,000 ultrasonic units shipped across industries — a scientific instrument, calibrated one by one.


HANDHELD SPORTS · WIND ONLY

SPECIAL MENTION

# One Platform, Two Instruments

Handheld WEATHER shares its housing, keypad, display and ultrasonic head with Handheld SPORTS — the wind-only model for sailors and athletes who need speed and direction and nothing more. One platform, two instruments, the same calibration standard.

## WEATHER

Wind speed and direction, temperature, humidity, pressure. Five reading screens.

## SPORTS

Wind speed and direction only. The same ultrasonic head, a simpler instrument.

THE CASE FOR THE JURY

# Why HANDHELD WEATHER Should Win the DAME

01

## A Genuine First

The first compact handheld to combine ultrasonic wind speed and direction with temperature, humidity and pressure.

02

## Retiring a Category

Not a refinement of the spinning cup-and-vane anemometer — a replacement for it, and for the second instrument in the bag.

03

## Field-Ready by Design

Color display, physical keypad, IP66 housing and a wrist lanyard, at 180 g — built for one-handed use in real conditions.

04

## Open by Choice

Open-source hardware and BLE connectivity welcome any partner platform — chartplotters, apps, drone systems — without lock-in.

CALYPSO instruments

**We believe HANDHELD WEATHER earns recognition not for refining an old idea, but for retiring one.**