

User's Manual

# Model DP70-BN1 Hybrid Anemometer

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***Hiyoshi***

Hiyoshi Electric Manufacturing Co.Ltd.

3rd Edition

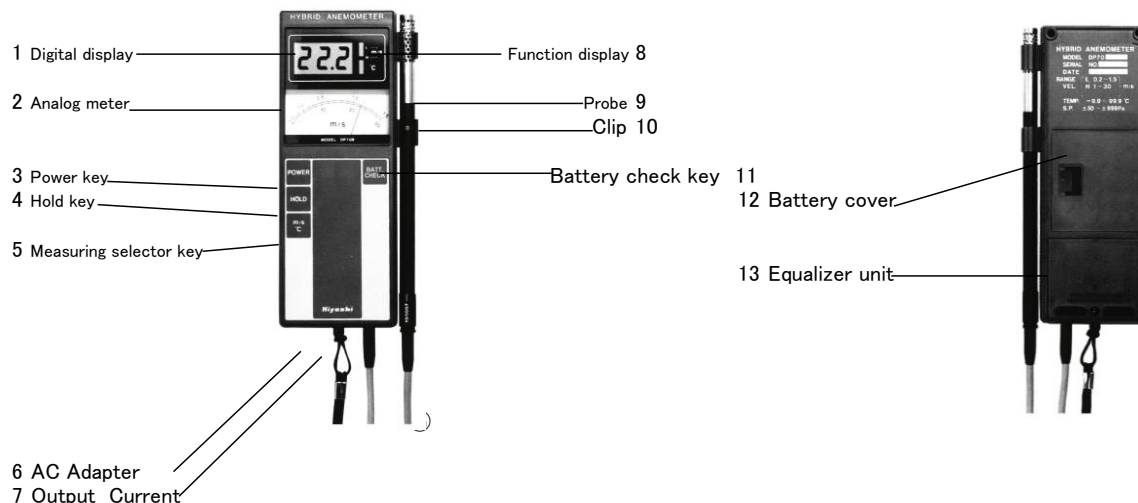
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# 1 Meter Description



- 1      Digital display
- 2      Analog meter
- 3      Power key
- 4      Hold key
- 5      Measuring selector key
- 6      AC Adapter
- 7      Output Current
- 8      Function display
- 9      Probe
- 10     Clip
- 11     Battery check key
- 12     Battery cover
- 13     Equalizer (Sensor) unit

## 2-1 Introduction

Congratulations on your purchase of Hiyoshi's Hybrid-Anemometer. This Meter Measures Displays Wind Velocity and Temperature. This meter is Shipped fully Tested and Calibrated and, with Proper use, will provide years of reliable Service.

## 2-2 Warranty

Hiyoshi Electric Manufacturing co., Ltd Warrants this Instrument to be free of Defects in parts for one year from date of shipment. If it should become necessary to return the Instrument for service during the warranty period, contact the Customer Support at support@hiyoshidenki.co.jp. The sender is Responsible for shipping charges, freight, Insurance and proper Packaging to prevent damage in transit. This warranty does not apply to defects resulting from action of the user such as Misuse, Improper, Operation Outside of Specification, Improper Maintenance or repair, or Unauthorized Modification.

## 2-3 General Specifications

Display	Combined Analog, Digital Display
Units of Measure	Wind velocity m/s (meters per second)
Temperature	C° (celsius)
OutPut	Linear output, Applicable in wind velocity, 0~1VDC. Wind velocity 0~30m/s
Data hold	Holds the currently Measure value when Pressed during Measure (only digital display)
Operating Temp	-10~80 C°
Power Supply	AA Battery *4, AC Adapter
Weight	Approx. 460g
Dimensions Meter	(70 x 177 x 40mm);
Anemometer Probe	Diameter x 9.5" (177mm)
Accessories	Extendable Antenna, Shoulder Bag, User's Manual, Test Data, Calibration Certificate.

## 2-4 Range specification

### 2-4.1 Wind Velocity

Measurement	Range	Resolution	Accuracy (% of span)
m/s (meter/second)	0.1 ~ 1.5 m/s	(0.01)	± (5%)
m/s (meter/second)	1 ~ 30 m/s	(0.1)	± (5%)

### 2-4.2 Temperature

Range	Resolution	Accuracy (% of span)
-9.9°C to 99.9°C	0.1%	± 1.0

## 3-1 MEASURING PREPARATION

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3-1

The Pointer of the Analog Meter should always be at the lower end (left end) of the Scale before Power on.

Press the POWER button to turn the Instrument on .

Press the POWER button to Display the Model Name (DP70B) and Battery Indicator (b0~B9)

### 3-1.1 Wind velocity Measurement

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#### Taking Measurements

Remove the probe from the clip, hold the probe by the handle in the area to be Measured.

The tip of the probe will detect the wind velocity .Press the POWER button to turn the Instrument on, The "L" Range is selected to Measure the wind velocity.

The Automatic range-switching Function Operates from "L" to "H" when a wind velocity Corresponding to the "H" range is detected.

The wind velocity is reading on LCD display , Analog Meter simultaneously

\*Use Analog Meter reading in case of severe fluctuations.

\*The Measuring function display is blinking during the "HOLD"

### 3-1.2 Measuring at height

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Use the Accessory probe holder for measuring near the ceiling and at other high locations (free retraction and extension between 0.2 and 1m).

### 3-1.3 Battery Replacement

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If the Digital Display does not switch on when the POWER button is pressed or when BATT.CHECK button is pressed the display shows "B0" ,Replace the batteries

1. Remove the battery compartment.
  2. Replace the 4 "AA" Batteries observing polarity
- \* **If the Meter will not be used for long time, Remove the Batteries**

### 3-1.4 PROBE EXCHANGE

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If the probe should become damaged,Please contact the nearest sales office or Hiyoshi Electric Manufacturing Company .to buy a new one .

\*The Measuring values can not be guaranty when a probe of a different model is used.

## 4-1 Maintenance and Caution

- 1 The probe should never be exposed to temperatures of 100°C or more.
2. In case of "Out of Range"

	Wind Velocity	Temperature
Under Range	-----	Blinking Values and dots "....."
Over Range		Blinking Values

### 3. Output :0~1VDC/0~30m

4. As measuring errors will be caused by clogging of the hole or the net at the tip of the probe,they should be cleaned from time to time with a soft hair brush or by washing with alcohol,bezine,etc.
5. The digital display shows strange characters sometimes instantaneously .It is no problem for LCD'S character.
6. Auto switch off : 20 min.after last key press .

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