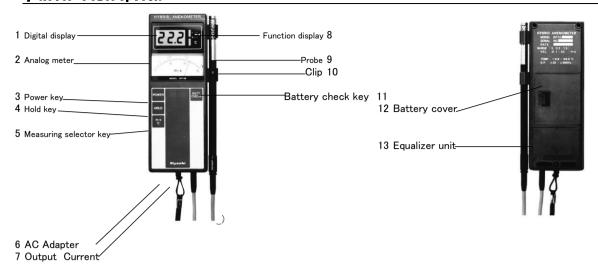
Model DP70-CN1 Hybrid Anemometer

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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	Faualizer (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)		
Static Pressure	Pa		
OutPut	Linear output, Applicable in wind velocity, $0 \sim 1$ VDC. Wind velocity $0 \sim 30$ m/s($0-\pm 1000$ Pa)		
Data hold	Holds the currently Measure value when Pressed during Measure(only digital display)		
Operating Temp	-10∼80 C°		
Power Supply	AABattery *4, AC Adapter		
Weight	Approx.460g		
Dimensions Meter	$(70 \times 177 \times 40 \text{mm});$		
Anemometer Probe	Diameter x 9.5" (177mm)		
Accessories	Extendable Antenna, Soulder 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)	0.1~1.5m/s	(0.01)	±(5%)
m/s(meter/second)	1 ∼ 30 m/s	(0.1)	± (5%)

2-4.2 Static Pressure

Range	Resolution	Accuracy (%of span)
±50 ∼ ±999 Pa	1%	± (5%)

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

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 Static pressure Measurement

Press the POWER button to turn the Instrument on, Select the "m/s Pa" button to measure the Static pressure. The static pressure will be displayed on the digital display, analog meter simultaneously.

Static pressure adapter:

Slightly loosen the unit of the accessory static pressure adapter ,insert the probe as far as possible , align the rear fitting of the probe and the black line on the static pressure adapter,and tighten the nut.Place the orifice in the center of the rubber plate of the adapter on to the location where the pressure is to be measured. For Example :A hole with diameter of about 10mm in a duct. Positive pressure can be measured with the orifice at the head of the probe,while negative can be measured with the orifice at the side.

The same number as the detection unit is attached to the adapter static pressure.

The measured values can not be guaranteed when used in combination with those other numbers.

Please use the same number of means be measured with the orifice at the side.

3-1.3 Measuring at height

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

3-1.4 Battery Repalcement

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

3-1.5 PROBE EXCHANGE

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.

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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	Temparature
Under Range		Blinking Values and dots""
Over Range	Blinking Values	

3. Output :0~1VDC/0~30m (0-±1000Pa)

- 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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