

Hair Dryer Wind Velocity & Air Volume Tester

Model: HR-01



INTRODUCTION

Thank you very much for purchase of our test equipment. This is a portable instrument of a light wind velocity (a mean wind velocity) for hair dryer. In the wind velocity indicator, the center shaft of an impeller having 8 blades of light alloy is geared to the pointer of a dial so that the pointer indicates the distance the wind has moved in the flow stream. From this distance and from the time that is required for measurement, the average wind velocity per second is obtained.
(range : 1~15 m/sec.)



Specification:

- (1) Brand : BEL
- (2) Model : HR-01
- (3) Wind Velocity & Air Volume Test Tube: 1 M
- (4) Diameter of Test Tube: 100 mm
- (5) High Temperature Anemometer
- (6) Test Temperature : Max. 200°C
- (7) Weight: 10 KGS

MEASUREMENT

1. Set long pointer and short pointer or anemometer to [0] position. When the stopper of anemometer is the position of (1), the windmill rotates but long and short pointers do not rotate. Turn the stopper to the position of (2). With the rotation of windmill, long and short pointer rotate. When long pointer comes to [0] position by putting short pointer key in the hole for [0] adjust of short pointer.
2. Install the windmill (the rear) face to the wind direction, turn the stopper to the position of (2) from (1) at the same time start the stopwatch. The measuring time is 2~3 minutes generally. In the strong wind, the time is about one minute. It's time up, return the stopper to the position of (1). The windmill keeps on the rotation but the pointers stop. Divide the value the pointers have moved, by the measuring time (second), so the average wind velocity per second is obtained.

EXAMPLE:

In 2 minutes of measuring time, the indication of long pointer is 40 and short pointer is 1,
 Run of wind = 140m
 (The distance the wind has moved in the flow stream)
 Measuring time ... 2 minutes = 120 seconds

$$\text{Average wind velocity} = \frac{140 \text{ m}}{120 \text{ sec}} = 1.16 \text{ m/sec}$$
