

**IRTHERMO-ANEMOMETER WITH BUILT-IN  
INFRARED THERMOMETER (HOT AIR ANEMOMETER)****Model KM 730 / KM 732 / KM 733****Preliminary Data****SAFETY:**

- CE Certification
- **EN61326** : Electrical equipment for measurement, control & laboratory use.
- **IEC61000-4-2** : Electrostatic discharge immunity test.
- **IEC61000-4-3** : Radiated, radio-frequency, electromagnetic field immunity test.
- **IEC61000-4-8** : Power frequency magnetic field immunity test.
- **IEC60825-1** : Safety.

**KUSAM-MECO®** IRTHERMO-Anemometer is with built-in non-contact Infrared Thermometer. The IRTHERMO-Anemometer is the air velocity, air flow (volume), air temperature, and non-contact infrared temperature measuring instrument. To measure the air velocity, put the sensor head face to the measurement air. Then the first reading will show the air velocity value. To measure a temperature, point the meter at a target until the temperature is read. (Make sure the target area is larger than the unit's spot size. For large target object ensure that you are within target distance.)

**APPLICATIONS :**

|                            |                    |                   |                         |
|----------------------------|--------------------|-------------------|-------------------------|
| Environmental testing      | Ventilation system | Refrigerated case | Fans / motors / blowers |
| Far distance temp. Monitor | Flow hoods         | Air conveyors     | Furnace velocity        |

**FEATURES :**

|                                                                                                                              |                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Simultaneous display of air flow in CFM / CMM or air velocity plus ambient temperatures.                                     | Super large LCD with dual function display, read the air velocity & temperature at the same time. |
| Combination of hot wire & standard thermister, deliver rapid & precise measurements event at low air velocity.               | Real time data logger, built in clock (hour-min.-sec., Year-month-date).                          |
| Wide range measurement of air velocity, fast response time.                                                                  | Data hold and record / recall maximum, minimum and average reading.                               |
| Multi-functions for air velocity measurement: m/s, km/h, ft/min, knots, mile/h.                                              | Ultra low power consumption in shutdown mode.                                                     |
| Infrared thermometer measures remote surface temperature to 932°F (500°C) with 8:1 distance to spot ratio and laser pointer. | Auto power off after 10 minutes (30 Minutes with AC Power)                                        |
| USB PC Interface.                                                                                                            |                                                                                                   |

**ELECTRICAL SPECIFICATIONS : KM 730 / KM 732 / KM 733**

| Model                          | KM 730                                                                                                                                             | KM 732                                                                                                                 | KM 733                                                                                                                 |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Measurement                    | Air Velocity : m/s, ft/min, km/h, mile/h, knots<br>Temperature : °C and °F                                                                         | Air Velocity : m/s, ft/min, km/h, mile/h, knots;<br>Air Flow : CMM (m³ / min), CFM (ft³/min)<br>temperature: °C and °F | Air Velocity : m/s, ft/min, km/h, mile/h,<br>knots; Air Flow : CMM (m³ / min), CFM<br>(ft³/min) temperature: °C and °F |
| Sensor                         | Air Velocity / Air Flow sensor : Hot wire , Temperature : Thermopile                                                                               |                                                                                                                        |                                                                                                                        |
| Sample Time                    | Approx. 0.5 sec.                                                                                                                                   |                                                                                                                        |                                                                                                                        |
| Operating Temp.                | 0 ~ 50°C (32 ~ 122°F), 10 ~ 90% RH                                                                                                                 |                                                                                                                        |                                                                                                                        |
| Storage Temp.                  | -10 ~ 60°C (14 ~ 140 °F)                                                                                                                           |                                                                                                                        |                                                                                                                        |
| Record Function                | Yes (9 points)                                                                                                                                     |                                                                                                                        |                                                                                                                        |
| Data Logging                   | NO                                                                                                                                                 | Yes (2000 points)                                                                                                      | Yes (2000 points)                                                                                                      |
| Time Interval                  | NO                                                                                                                                                 | Yes                                                                                                                    | Yes                                                                                                                    |
| PC interface                   | NO                                                                                                                                                 | USB                                                                                                                    | USB                                                                                                                    |
| AC Power                       | Yes                                                                                                                                                |                                                                                                                        |                                                                                                                        |
| Multiple LCD Display           | Yes                                                                                                                                                |                                                                                                                        |                                                                                                                        |
| Max / Min / Avg                | Yes                                                                                                                                                |                                                                                                                        |                                                                                                                        |
| Auto Power Off                 | Yes                                                                                                                                                |                                                                                                                        |                                                                                                                        |
| LCD Backlight                  | Yes                                                                                                                                                |                                                                                                                        |                                                                                                                        |
| Data Hold                      | Yes                                                                                                                                                |                                                                                                                        |                                                                                                                        |
| Dimensions                     | 184 (L) X 70(W) X 40(H)mm (7.24 X 2.75 X 1.57 inch). Telescope probe : approx. 1800mm (70.8 inch) include wire rod.                                |                                                                                                                        |                                                                                                                        |
| Weight                         | Approx. 320g (11.3 oz.)                                                                                                                            |                                                                                                                        | Approx. 310g (10.9 oz.)                                                                                                |
| Accessories                    | 9V Battery, Instruction Manual, Carrying case, AC Input (KM732&KM733 include USB Cable, PC interface Window-base software)                         |                                                                                                                        |                                                                                                                        |
| <b>Air velocity</b>            | <b>Range</b>                                                                                                                                       | <b>Resolution</b>                                                                                                      | <b>Accuracy</b>                                                                                                        |
| M/s (meter per second)         | 0.00 ~ 40.00 m/s                                                                                                                                   | 0.01 m/s                                                                                                               | (3% + 0.3m/s) of reading                                                                                               |
| ft/min (feet per minute)       | 0.0 ~ 7874.0 ft/min                                                                                                                                | 0.1 ft / min                                                                                                           | (3% + 5.9 ft / min) of reading                                                                                         |
| km / h (kilometers per hour)   | 0.0 ~ 144.00 km / h                                                                                                                                | 0.01 km/h                                                                                                              | (3% + 0.11 km / h) of reading                                                                                          |
| mile / h (miles per hour)      | 0.00 ~ 89.50 mile / h                                                                                                                              | 0.01 mile / h                                                                                                          | (3% + 0.07 mile / h) of reading                                                                                        |
| knot (nautical miles per hour) | 0.00 ~ 77.75 knot                                                                                                                                  | 0.01 knot                                                                                                              | (3% + 0.06 knot) of reading                                                                                            |
| <b>Air Flow</b>                | <b>Range</b>                                                                                                                                       | <b>Area Range</b>                                                                                                      | <b>Area Resolution</b>                                                                                                 |
| CMM (m³ / min)                 | 0.000 ~ 72,000 (m³ / min)                                                                                                                          | 0.001 ~ 30,000m²                                                                                                       | 0.001                                                                                                                  |
| CFM (ft³ / min)                | 0.000 ~ 2542,700 (ft³ / min)                                                                                                                       | 0.01 ~ 322.92 ~ ft²                                                                                                    | 0.01                                                                                                                   |
| <b>Air temperature</b>         | <b>Range</b>                                                                                                                                       | <b>Resolution</b>                                                                                                      | <b>Accuracy</b>                                                                                                        |
|                                | 0.0 ~ 70.0 0°C (32.0 ~ 158.0°F)                                                                                                                    | 0.1°C (0.1°F)                                                                                                          | 8.0°C (1.5°F)                                                                                                          |
| <b>Infrared Thermometer</b>    | <b>KM 730</b>                                                                                                                                      | <b>KM 732</b>                                                                                                          | <b>KM 733</b>                                                                                                          |
| Range                          | -32.0 ~ 537.5°C (-25.0 ~ 999.0°F)                                                                                                                  |                                                                                                                        |                                                                                                                        |
| Accuracy                       | 3.0°C ( 5.4°F) from -32.0~20.0°C (-25.0 ~ -4.0 °F); 2.0°C ( 3.6°F) from -20.0 ~ 100.0°C (-4.0 ~ 212.0°F)<br>from 100.0 ~ 537.0°C (212.0 ~ 999.0°F) |                                                                                                                        |                                                                                                                        |
| Resolution                     | 0.1°C (0.1°F)                                                                                                                                      |                                                                                                                        |                                                                                                                        |
| Distance / spot Ratio          | 8 : 1                                                                                                                                              | 8 : 1                                                                                                                  | 8 : 1                                                                                                                  |
| Emissivity                     | 0.95 fixed                                                                                                                                         | 0.95 fixed                                                                                                             | 0.10 ~ 1.00 adjust                                                                                                     |

All Specifications are subject to change without prior notice