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| Measurement format | Evaporation weight loss method (Heat drying and weight loss method |
| Measurement object | Powder particle, liquid, paste, etc. |
| Sample weight | 0.5~120g using selective weight sampling method |
| Minimum displayable units | Switch between moisture 0.01 % / 0.1 %, mass 0.001 g |
| Measurement range | 0 %~100 % (wet base, solids), 0 %~500 % (dry base) |
| Reproducibility (Standard deviation) ^{*1} | Sample mass 5 g and above 0.05 % (including water content) Sample mass 10 g and above 0.02 % (including water content) |
| Measurement modes | Automatic halting mode Timed halting mode (with measurement times of 1~240 minutes or continuous measurement mode, with a maximum measurement time of 12 hours) High-speed drying mode (used with either automatic or timed halting mode) Low-speed drying mode (used with either automatic or timed halting mode) Stepped drying mode (5 steps) Predictive (comparative) measuring mode |
| Temperature range | 30 $^\circ\text{C}180~^\circ\text{C}$ in 1-degree increments when using a thermistor |
| Display | Backlight LCD display (137 mm x 43 mm) |
| External output | RS-232C interface |
| Temperature/humidity operating range | 5 °C~40 °C, maximum of 85 % RH |
| Heat source | Mid-infrared quartz heater (200 W x 2) |
| Temperature sensor | Thermistor |
| Power supply | AC100~120 V/220~240 V (50/60 Hz) |
| Power consumption | Maximum 900 W |
| Weight and external dimensions | Net:5.4 kg / Gross:9.5kg, 220 mm x 415 mm x 220 mm (W x D x H) $$ |
| Sample dish | SUS sample dish (Diameter: 130 mm; Depth 13 mm) |
| Items included | 2 sample dishes, 2 sample dish handlers, sample dish tray, wind shield, power cord, spoon & spatula set, 2 spare fuses (8 A), 2 packages of aluminum foil sheets (10 per package), glass fiber sheets (10 sheets), operating manual |
| Optional equipment | Printer (printer VZ-330, interface cable VZC-14, |
| | printer paper (10 rolls), aluminum foil sheets (500 sheets) |
| | RS-232C cable(VZC-52), GF-100 Temperature sensor testing kit |
| | Data logger software KDL-01 , Sample crusher TQ-100 |
| | Deodorizing/windproof case FW-100 |

*1.As per Kett's in-house stipulated measurement conditions and standard samples.

•Specifications FD-720

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Measurable material

• Material that will not cause dangerous chemical reactions when heated. • Material that will dry due to evaporation of water or other substance that is to be measured.

▲ Safety precautions

- For safe operation, ensure you read the Operating Manual before use.
- Do not attempt to measure material that will cause dangerous chemical reactions on heating. Further, the tester becomes very hot, so please take precautions against burns and /or fire.

| KETT ELECTRIC LABORATORY 1-8-1 Minami-Magome Ota-Ku, Tokyo 143-8507 Japan Tel.+81-3-3776-1121 Fax.+81-3-3772-3001 URL http://www.kett.co.jp/ E-mail overseas@kett.co.jp VEGETABLE OL INK This brochure uses environmentally friendly "vegetable soy ink" and waste paper blend recycled paper". | Requests |
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• To improve the product, specifications and the external appearance may be changed without notice. In addition, please note that due to printing, the product's color may appear different from the actual article. 1303•Kett•0301•pdf

FD-720 Infrared Moisture Determination Balance





Optional Printer VZ-330

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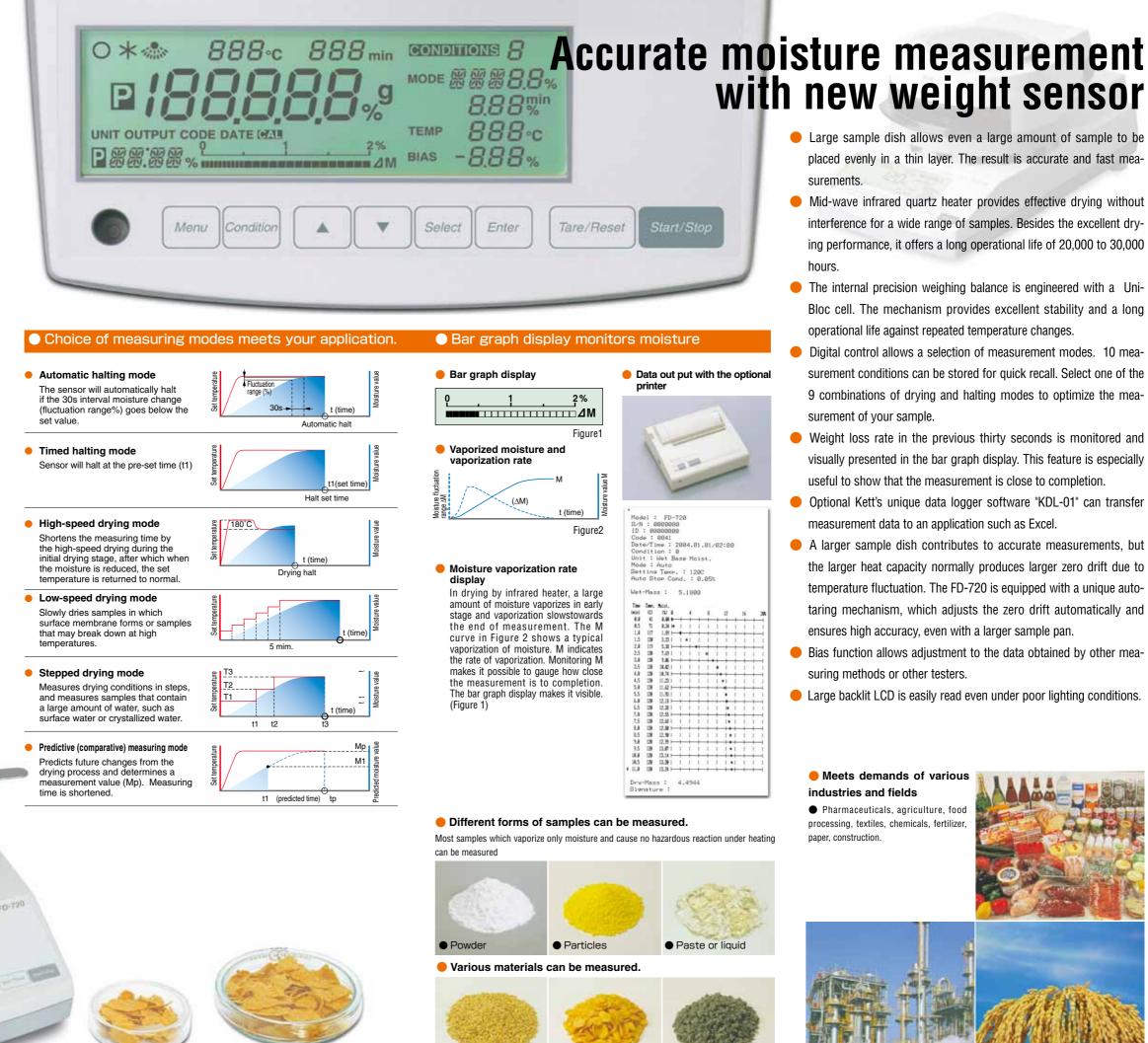
SCIENCE OF SENSING

FD-720 Infrared Moisture Determination Balance

FD-720 can change the moisture display from normal 0.1% to high accuracy 0.01% resolution. To realize its high accuracy, the 1mg resolution balance unit is installed. The heater source is newly developed, a large 400watts Mid-wave infrared quartz heater controlled by the software for the drying process. It has "High-speed drying mode" that can reduce much of the measurement time for suitable sample materials. 10 measurement conditions can be saved in the instrument memory so that you don't have to enter the condition manually every time for each sample. The optional data logger software enables the data transfer linked with PC. The optional printer VZ-330 prints out the measurement result in a graph or numerical format.

FD-720 is designed for all quality control and testing divisions where the most accurate moisture measurement is required.





Cereals

Other foods

Chemical resir

with new weight sensor

- Large sample dish allows even a large amount of sample to be placed evenly in a thin layer. The result is accurate and fast measurements.
- Mid-wave infrared quartz heater provides effective drying without interference for a wide range of samples. Besides the excellent drying performance, it offers a long operational life of 20,000 to 30,000 hours.
- The internal precision weighing balance is engineered with a Uni-Bloc cell. The mechanism provides excellent stability and a long operational life against repeated temperature changes.
- Digital control allows a selection of measurement modes. 10 measurement conditions can be stored for quick recall. Select one of the 9 combinations of drying and halting modes to optimize the measurement of your sample.
- Weight loss rate in the previous thirty seconds is monitored and visually presented in the bar graph display. This feature is especially useful to show that the measurement is close to completion
- Optional Kett's unique data logger software "KDL-01" can transfer measurement data to an application such as Excel.
- A larger sample dish contributes to accurate measurements, but the larger heat capacity normally produces larger zero drift due to temperature fluctuation. The FD-720 is equipped with a unique autotaring mechanism, which adjusts the zero drift automatically and ensures high accuracy, even with a larger sample pan.
- Bias function allows adjustment to the data obtained by other measuring methods or other testers.
- Large backlit LCD is easily read even under poor lighting conditions.

Meets demands of various industries and fields

Pharmaceuticals, agriculture, food processing, textiles, chemicals, fertilizer, paper, construction

