

Digital Refractometer for Clinical Protein

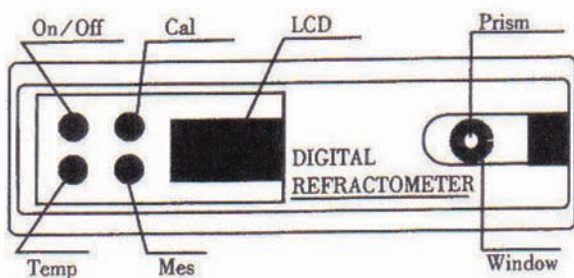
The DRC series are developed for clinical usage and intended for both Veterinary and Human Being.

This unit provides veterinarians and Human Being with quick and accurate indication of vital fluids levels. It can read urine specific gravity, total serum protein and refractive index

I. Product Specification

No.	Model	Scale	Range	Original Point	Div.	Accur.
1.	DRC - 200	Urine SP. G	1.000 ~ 1.050	1.000	0.001	± 0.002
		Serum P.	0 ~ 12g/dl	- 0.9	0.1	± 0.2
		nD	1.3330 ~ 1.3900	1.3330 (± 0.0001)	0.0001	± 0.0003

- Temperature Measurement Range: 0°C ~ 40°C (32 ~ 104°F)
- Precision of Measurement temperature: ± 1°C (2°F)
- Measurement temperature Resolution: 0.1°C
- Operation Temperature: 0 ~ 40°C (32 ~ 104°F)
- Storage temperature: - 10 ~ 50°C (14 ~ 122°F)
- Dimension : 185 × 59 × 45mm
- Weight : 230g
- Power Supply : 1 battery (9v)
- Operating Time : 1500 times per battery
- Automatic Temperature Compensation
- Automatic Shut Off
- Conversion between Centigrade and Fahrenheit Degree
- Alarm of low battery

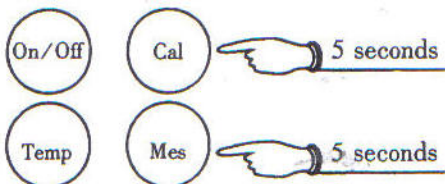
II. Structure Drawing:**III. Operation Steps:****A. Power on**

1. Press the "On/Off" button to turn it on or off. The current temperature and scale will display on LCD when power on.
2. The instrument will turn off automatically if there is no any operation in three minutes.

B. Original Point Setting

1. Completely clear prism window. Drop distilled water to fill the prism window.
2. Hold "Cal" button for five seconds till it twinkles "rEF" on LCD. Within 10 second after display "rEF", press Mes button and hold it for five seconds. The instrument start to set Original Point. After Original Point Setting is finished, "End" will be displayed on LCD. (Please refer to the above page for exact values).





3. Repeat step 1 - 2 to set Original Point again if the Original Point is different from standard value.

C. Measurement

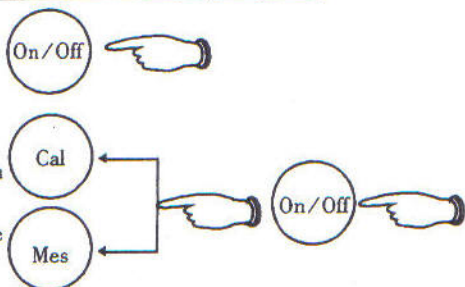
1. Completely clear prism window. Drop solution to fill the prism window.
2. Press "Mes" button. And the value of the solution will display.



IV. Other Operation

A. Conversion of Status of Scales

1. Turn it off.
2. Firstly, Synchronously hold "Cal" button and "Mes" button, (Note: don't leave go of), then press "On/Off".
The conversion of scales will be achieved. (The scale status chosen will be saved automatically).



3. Repeat step 1 - 2 for conversion to other scale.

B. Conversion of temperature

The conversion of Fahrenheit and Centigrade can be made by pressing "Temp" button.

C. Installation Battery

In the case of no battery or low battery whit alert of "(((." on the upper left of LCD, you should install or replace the battery. Open the battery cover on the back of the instrument, install a battery or replace the old battery with a new one.

D. Clean

1. Completely clean the prism window after or before measurement.
2. Make sure you keep the prism window clean, otherwise the accuracy of the measurement value will be influenced.

V. Precautions

1. Operation should be implemented strictly according to instruction.
2. To avoid that accuracy is affected by evaporation, be sure to implement measurement immediately after dripping solution on window of stage.
3. It can cause worry result if keep measuring under low battery.
4. Because the instrument is very precise, it prohibited from violent shock.
5. Don't expose the instrument to low, high temperature and sun light for long time, to avoid LCD losing effectiveness.
6. Don't use it under the strong light (as sunlight, lamp etc.)
7. Don't use the instrument in the humid and corrosive environment.
8. To avoid damage, don't disassemble and assemble the instrument or change the inner circuit and parts.
9. Prevent from liquid into battery house.