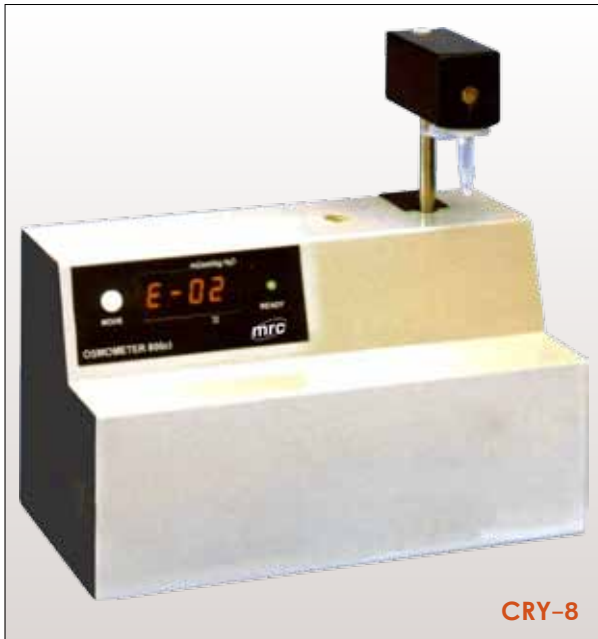


CRY-8, Cryoscope



Features and Benefits:

● Freezing Point Analyzer for Milk

The CRY-8 is a modern digital analyzer for the accurate determination of the freezing point temperature in samples of raw milk or milk products (skimmed, pasteurized or UHT-milk).

The most objective indicator for the degree of falsification of milk by additional water is the raising of the freezing point temperature from $> -0.512\text{ }^{\circ}\text{C}$. The CRY-8 complies fully with the international standard ISO 5764/2002(E), IDF 108/2002(E) "Milk" - Determination of Freezing Point - Thermistor Cryoscope Method (Reference Method) and Annex C without the necessity to correct the results to the reference method.

The analyzer measures temperatures in the range from below $-0.512\text{ }^{\circ}\text{C}$ (pure milk) to $-0.527\text{ }^{\circ}\text{C}$ in increments of $0.001\text{ }^{\circ}\text{C}$.

● Peltier Effect

The measuring principle is the freezing point detection of super cooled liquids based on the Peltier Effect. On the cold side of an Peltier element the milk samples are cooled down below the freezing point in the range 0 to $-7\text{ }^{\circ}\text{C}$.

● 1-Point Calibration

One-point calibration –the instrument requires for calibration only one distillation water sample. Measurement corrections are done automatically & entered into

the microprocessor memory. It is an outstanding advantage of the CRY-8, that calibration is performed in ONE POINT ONLY. In comparison with this, competitive analyzers do need 2 or 3 different calibration points.

Once the CRY-8 is calibrated, the CALIBRATION REMAINS STABLE the whole day AS LONG AS THE INSTRUMENT STAYS SWITCHED ON.

● Aqua Dest - Calibration

The CRY-8 does not need expensive calibration solutions except distilled water for the zero point. These features, 1-POINT CALIBRATION and AQUA DEST-CALIBRATION ARE UNIQUE in the market and they CONTRIBUTE TO SAVING LABOR TIME AND COSTS FOR PURCHASE and STORAGE OF EXPENSIVE CALIBRATION STANDARDS.

● 100µl Sample Volume & disposable measuring vessel

Precise measuring results from only 100µl sample make the CRY-8 disposable measuring vessels not require washing and sterilization.

● Easy Operation

After the samples in 1.5ml tubes are inserted into the measuring position the instrument PERFORMS AUTOMATICALLY THE MEASURING PROCEDURE. FUNCTION CONTROL and ERROR IDENTIFICATION are also automatically done by the instrument. High accuracy ($\pm 0.002\text{ }^{\circ}\text{C}$) and repeatability ($\pm 0.002\text{ }^{\circ}\text{C}$) of results. Short measuring time ca 1.5 min. Digitally readout of temperature $^{\circ}\text{C}$ and %H₂O with printout. The printer can be adapted via RS 232 data port.

● Simple Installation

The CRY-8 is air cooled and does not need any connection to cooling water.

● Robust Housing

The sheet metal housing with epoxy lacquer paint ensures UTMOST MECHANICAL and CHEMICAL RESISTANCE to the laboratory environment.

● Small Dimensions

Small instrument weight and dimensions, big resistance to vibrations and hard working conditions (humidity max 85%, ambient temp. $36\text{ }^{\circ}\text{C}$) make the CRY-8 from well applicable in stationary and field conditions.