

PT-463
ABBE REFRACTOMETER

Designed for accurate and quick examination of the Refractive index, Mean dispersion of liquids, solids and powder

| | |
|--------------------|---------------------------------------|
| Range | ND 1.300 to ND 1.700 in step of 0.001 |
| Accuracy | + 0.0002 |
| Sugar (Percentage) | 0 to 95% in steps of 1 division |
| Accuracy | 0.5% |
| Temperature | 0 - 100°C |

The body of the instrument is fixed having a leaning of 60°, correct refractive index and sugar percentage can be read directly in the field. It consists of a abbe double prism compensator, telescope mirror limb, graduated, sector, reading, magnifier and a radial arm which carries a vernier. Abbe's double prisms leaves a narrow space (about 0.1 mm.) between the adjoining faces of prisms and compensator consists of the amici prisms which serves for rendering the line of achromatic separation. A thermometer is fitted on the double prism.

(HSN Code: 90275020) 14950-00 /-

PT-463/05

CIRCULATED WATER BATH WITH DIGITAL TEMPERATURE CONTROLLER

Abbe double prisms are heated by a double jacketed water bath in which warm water under 70°C circulates. The temperature of the water can be adjusted and read by the thermometer fitted on the double prism.

(HSN Code: 84198990) 14950-00 /-



PT-463/05
ABBE REFRACTOMETER



PT-464
BUTRYO REFRACTOMETER

This instrument can be used for measurement of fats in ghee and other such products giving a reading directly in terms of the oil scale also known as butyro scale. The micrometer eye-piece allows an accuracy on this scale of 0.1 and the oil scale may also be converted into a refractive index scale using conversion tables. This allows measurements on materials with index of refraction in the range of 1.42 to 1.49 with an accuracy of 0.0002 as tables are supplied for converting oil scale reading into index of refraction, relative to mean sodium lines. The prism box is water jacketed for temperature control and a sample achromatising device enables the removal of all colours from the border line thus enabling the instrument to be used with white light. The instrument is provided with a test liquid for checking and resetting the scale if necessary and is encased in a portable wooden box. Refraction range from 1.42 to 1.49 with accuracy of 0.0002 fitted with sugar and oil scale, sugar scale 50-80% and oilscale 0-100%.

(HSN Code: 9027) 13950-00/-

PT-465
HAND REFRACTOMETER

(ERMA MADE IN JAPAN)

(HSN Code: 90275090)

| CATALOGUE NO. | DESCRIPTION | RATE (₹) |
|---------------|-------------|-----------|
| PT-465/ 05 | 0- 32 % | 2895-00/- |
| PT-465/10 | 0- 50 % | 2995-00/- |
| PT-465/15 | 28- 62 % | 3150-00/- |
| PT-465/20 | 58- 92% | 3350-00/- |



PT-465
HAND REFRACTOMETER



PT-464
BUTRYO REFRACTOMETER

