



Industry: Pharmaceutical

Applications	Substances	Requirements	Standards	Polarimeters
<ul style="list-style-type: none"> ▪ Determination of the concentration ▪ of sugar as an ingredient of pharmaceutical agents ▪ Purity control and content determination ▪ Determination of the stereochemical composition and mutarotation ▪ Characterisation of new synthetic substances ▪ Ensuring enantiomer separation ▪ Concentration determination of optically active substances ▪ Analyzing toxic and pharmacological characteristics 	<ul style="list-style-type: none"> ➔ Sugar, Vitamins ➔ Amino acids and proteins ➔ Blood sera, steroids, antibiotics, hormones ➔ painkillers, amphetamines ➔ Schmerzmittel, Amphetamine etc. 	<ul style="list-style-type: none"> ▪ Accuracy ▪ Standards conformity 	<ul style="list-style-type: none"> ▪ Pharmacopoeias (USP, BP, JP, Ph. Eur.) ▪ 21 CFR Part 11 	<p>P8000-T P8000-P</p>

Industry: Chemical

Applications	Substances	Requirements	Standards	Polarimeters
<ul style="list-style-type: none"> ▪ Purity control and concentration determination, ▪ Tracking of chemical processes in the production of optically active substances, ▪ Characterization tests in research laboratories ▪ Reaction kinetics studies 	<ul style="list-style-type: none"> ➔ Biopolymers, synthetic polymers ➔ Glycerinaldehydes ➔ Various hydrocarbons etc. 	<ul style="list-style-type: none"> ▪ Control at different temperatures, ▪ Variability of the measurement methods ▪ Option of interval measurements 	<ul style="list-style-type: none"> ▪ AOAC, OIML, ASTM ▪ Pharmacopoeias (USP, BP, JP, Ph. Eur.) ▪ 21 CFR Part 11 	<p>P8000-T P8000-P</p>

Industry: Food and Beverage

Applications	Substances	Requirements	Standards	Polarimeters
<ul style="list-style-type: none"> ▪ Characterization, quality and purity control of raw materials and end products ▪ Determination of sugar concentration in beverages and confectionery products ▪ Quality control & purity determination of starch and starch-based products, dextrose or corn syrup ▪ Analysis of carbohydrate components as an indication of product quality ▪ Routine analysis with high sample volumes 	<ul style="list-style-type: none"> ➔ Sugar, starch ➔ Polysaccharides in food and animal feed products ➔ Flavors ➔ Lactose in milk, lactic acid ➔ Glucose in wine ➔ Sugar content in honey, etc. 	<ul style="list-style-type: none"> ▪ Fast measurement with easy handling ▪ Robust, acid-resistant measuring tubes 	<ul style="list-style-type: none"> ▪ AOAC, OIML, ASTM 	<p>P8000-T P8000-TF</p>



Industry: Sugar				
Applications	Substances	Requirements	Standards	Polarimeters
<ul style="list-style-type: none"> ▪ Determination of the sugar concentration of raw materials, preliminary, intermediate and final products, ▪ Tracking of chemical processes, e.g. in invert sugar production, ▪ Quality control & purity determination of starch and starch-based products, dextrose or corn syrup ▪ Analysis of carbohydrate components as an indication of product quality 	<ul style="list-style-type: none"> ➔ Sugar cane ➔ Beet pulp ➔ Molasses, refined sugar ➔ Syrup, invert sugar, dextrose ➔ Corn syrup etc. 	<ul style="list-style-type: none"> ▪ Availability of the international sugar scale ▪ No need for maintenance 	<ul style="list-style-type: none"> ▪ ICUMSA 	<p>P8000 P3000 (with temperature control)</p>

Industry: Manufacturers Aromas, Fragrances and Essentials Oils				
Applications	Substances	Requirements	Standards	Polarimeters
<ul style="list-style-type: none"> ▪ Qualitätskontrolle von Roh- und Hilfsstoffen ▪ Überwachung der Produktion von Zwischen- und Endprodukten ▪ Reinheitsmessungen von wertvollen ätherischen Ölen ▪ Garantie der gleichbleibenden Qualität von Parfümen 	<ul style="list-style-type: none"> ➔ Essential oils: orange, lavender, lime and pepper mint oil ➔ Glyceric acid ➔ Aromas and perfumes for the food and cosmetics industry etc. 	<ul style="list-style-type: none"> ▪ High resistance to chemicals ▪ Availability of micro-cuvettes 	<ul style="list-style-type: none"> ▪ AOAC, OIML, ▪ Pharmacopoeias (Ph. Eur.) 	<p>P8000-TF</p>

Hospitals and Pharmacies				
Applications	Substances	Requirements	Standards	Polarimeters
<ul style="list-style-type: none"> ▪ Incoming goods/outgoing goods inspection ▪ Control of medicines according to pharmacopoeias 	<ul style="list-style-type: none"> ➔ Drug ingredients ➔ Pharmaceutical raw materials and excipients 	<ul style="list-style-type: none"> ▪ Robustness ▪ Easy handling ▪ Low price 	<ul style="list-style-type: none"> ▪ Pharmacopoeias (USP, BP, JP, Ph. Eur.) ▪ 21 CFR Part 11 	<p>P1000-LED P3000 (with temperature control)</p>

Education in Industry or at Universities				
Applications	Requirements	Polarimeters		
<ul style="list-style-type: none"> ▪ Use in practical exercises and experiments on: <ul style="list-style-type: none"> ➔ Kinetics of cane sugar inversion ➔ Mutarotation of glucose ➔ Concentration determination of polysaccharides by starch hydrolysis 	<ul style="list-style-type: none"> ▪ Robustness ▪ Easy handling ▪ Low price 	<p>P1000-LED P3000 (with temperature control)</p>		



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