

Polarimeters

Polarimeter Model D7



BELLINGHAM
& STANLEY

Polarimeter Model D7

Manually operated, low cost instrument for measuring the rotation of optically active samples using the variable half wave plate effect. A pair of polarisers are aligned with one rotatable in respect to the other, rotation being measured upon a divided circle. Scale: 0 to 360°A in 1°A increments and International Sugar Scale (ISS): -30° to +130°Z in 1°Z increments. A micrometer drum gives further direct reading to 0.05°A and sugar scale 0.1°Z ISS. Accepts polarimeter tubes up to 220mm in length. A built-in, LED light source and interference filter with intensity control replaces the need for a separate sodium lamp. Overall 320 x 180 x 460mm H x W x D. Weight 5.5kg. Supplied with one 200mm long sample tube, dust cover, instructions and power supply for the light source requiring a 90-230V 50/60Hz single phase supply.

PT500-15 Model D7

Polarimeter Models ADP410/ADP440+



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Polarimeter Model ADP 410

Fully automatic, dual scale polarimeter suitable for measuring the rotation of optically active samples across a wide range of applications. With easy-to-use, four key operation, keypad control of automatic read scale, compensation selection, zero calibration print and temperature. A bright, LED readout gives good visibility in all ambient light conditions. Scales -90 to +90° angular (A) in 0.01° and -225 to +225°Z in 0.01°Z ISS (International Sugar Scale). Accuracy better than $\pm 0.02^\circ$ angular, $\pm 0.05^\circ$ Z ISS. With built-in LED light source and interference filter, external power supply to minimise heat generation allowing rapid stabilisation, rugged, chemically resistant housing enabling use in both factory and laboratory environments and RS232 output interface. Accepts polarimeter tubes up to 220mm long. A temperature probe with flexible cable is fitted for use either to monitor sample chamber temperature or to be placed in the filling arm of the measurement tube for direct sample temperature monitoring. Overall 150 x 620 x 340mm H x W x D. Weight 9kg. Supplied with one 200mm long sample tube, instruction manual, certificate of conformity and external power supply for 90-250V 50/60Hz single phase supplies.

PT550-60 Model ADP410

Polarimeter Model ADP 440+

Generally as PT550-60 but with range -355 to +355° angular (A) and -225 to +225°Z ISS with selectable 0.01/0.001 resolution for both ranges, 2 x RS232 interfaces for networking with other instruments, connecting to the users' PC or bar-code reader, GLP and CFR21 Part 11 audit trail software and individual user RFID identification system. Overall 150 x 620 x 340mm H x W x D. Weight 9kg. Supplied with one 200mm long sample tube, instruction manual, certificate of conformity, 3 x RFID tags that can be "swiped" across the instrument surface and external power supply for 90-250V 50/60Hz single phase supplies.

PT550-70 Model ADP440+

Polarimeter tubes for all models

Nominal 8mm i.d. glass tubes in lengths of 100 or 200mm. With screw-on nylon end-caps and 15.5mm diameter cover glasses.

Standard tube with bulb to clear bubble from field of view.

PT600-10 100mm long

PT600-20 200mm long

Centre filling tube with straight arm.

PT605-10 100mm long

PT605-20 200mm long

Centre filling tube with cup-shape arm.

PT610-10 100mm long

PT610-20 200mm long

Spares

PT618-06 Cover glasses 15.5mm diameter, pack of 12

PT618-10 Rubber washers, pack of 12

PT618-17 End caps, nylon, pack of 2



PT500-15



PT550-60, PT550-70 is similar