



# ADP600 Series Polarimeter

HIGH PERFORMANCE MODEL WITH PELTIER TEMPERATURE CONTROL

COVERING WAVELENGTHS 365 TO 633NM

**Multiple wavelength, high performance polarimeter for experiments across the UV/Vis spectrum up to 633nm.**

As part of the ADP600 series of polarimeters, the ADP663 incorporates the popular 633nm wavelength, equivalent to that of a Helium Neon laser (HeNe) that is often quoted in research and experimental methods.

With all the standard features of the ADP600 Series polarimeter, the latest addition to this popular series of research instruments is ideal for applications where optical rotation in the across a wide range of UV/Vis wavelengths is required.



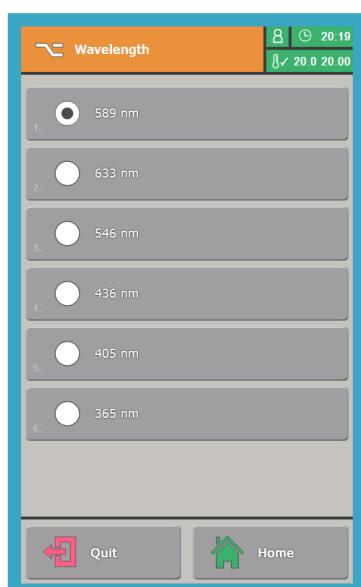
Six wavelengths including:

- Ultraviolet - 365nm
- Mercury 546nm
- Sodium - 589nm
- Helium Neon (equiv.) - 633nm
- Four decimal place resolution
- Peltier temperature control
- Methods system



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# ADP663 Multiple Wavelength Polarimeter INCLUDING 365 AND 633NM



## General Specifications

|                                |                                                                               |
|--------------------------------|-------------------------------------------------------------------------------|
| Range (°A)                     | ± 89 (-355 to +355 via Method selection)                                      |
| Resolution (°A)                | 0.0001                                                                        |
| Accuracy (°A)                  | ± 0.003 (@546 & 589nm)<br>± 0.005 (@ 365, 405, 436 & 633nm)                   |
| Temperature Range              | 15-35°C                                                                       |
| Temperature Control / Accuracy | Peltier / ± 0.2°C                                                             |
| Temperature Compensation       | None, sugar, quartz, user defined                                             |
| Optical Density Range          | 0.0 to 3.0 OD                                                                 |
| Methods                        | Specific Rotation, % Concentration, Purity, % Invert Sugar, % Inversion (A-B) |
| Temperature Set Points         | 20 & 25 °C (variable between 20-30 °C via Method)                             |
| Reading Time                   | 15-60 seconds @589nm and 20/20°C (instrument/sample)                          |
| Tube Length                    | 5-200mm                                                                       |
| Tube Diameter                  | 8mm                                                                           |
| User Interface                 | High Definition 7.4" (10cm) touchscreen colour display                        |
| Light Source                   | UV/Vis lamp (6V, 2A >1000hrs) and narrow band pass filter                     |
| Interfaces                     | 3 x USB (A), 1 x USB (B), 1 x Ethernet, 1 x RS232                             |
| Power Supply                   | 100-250V~, 50-60 Hz. <6A                                                      |

## Order Codes

| Code  | Description                                                                                                                                          | Wavelengths                    |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| 37-73 | <b>ADP663</b> multiple wavelength polarimeter supplied with pack of two RFID tags, standard lids, instruction manual and certificate of calibration. | 365, 405, 436, 546, 589, 633nm |
| 35-82 | Polarimeter tube window, silica (UV pass) (qty 4).                                                                                                   |                                |

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