# Technical Data - MCP 150

| Standard methods |
|---|
| AOAC 920.190, AOAC 970.57, AOAC 930.36, AOAC 920.184, AOAC 920.189, AOAC 920.188, AOAC 920.182, AOAC 920.82, AOAC 926.11, AOAC 898.02, AOAC 920.139, Ph. Eur. 2.2.7 - Optical rotation, USP 781 - Optical rotation |

| Technical Data: | |
|---|---|
| **Measuring scales** | °Optical Rotation, °Specific Rotation, %Concentration |
| **Measuring range** | ±89.9° |
| **Resolution** | 0.001° |
| **Accuracy** | ±0.004° |
| **Repeatability** | ±0.004° |
| **Response time** | max. 12 sec |
| **Temperature:** | |
| **Temperature sensor** | Built-in PT 100 sensor |
| **Temperature resolution** | 0.1 °C |
| **Temperature accuracy** | ±0.1 °C |
| **Temperature control** | Automatic Peltier temperature control between 15 °C and 35 °C, or without temp. control |
| **Other specifications:** | |
| **Wavelength** | 589 nm |
| **Light source** | LED, with average lifetime of 100.000 hours |
| **Sensitivity** | Light intensity control compensates attenuation up to Optical Density (OD) 2.0 |
| **Sample cell / quartz control plate** | **Toolmaster™** - Automatic sample cell and quartz control plate identification; sample cell path length of 2.5 mm to 100 mm |
| **Display** | TFT touchscreen 5.7" (145 mm), 640 x 480 Pixels |
| **Interfaces** | 3 USB, RS232, Ethernet, CAN bus, easy connection of keyboard, mouse, printer, bar code. Network capability |