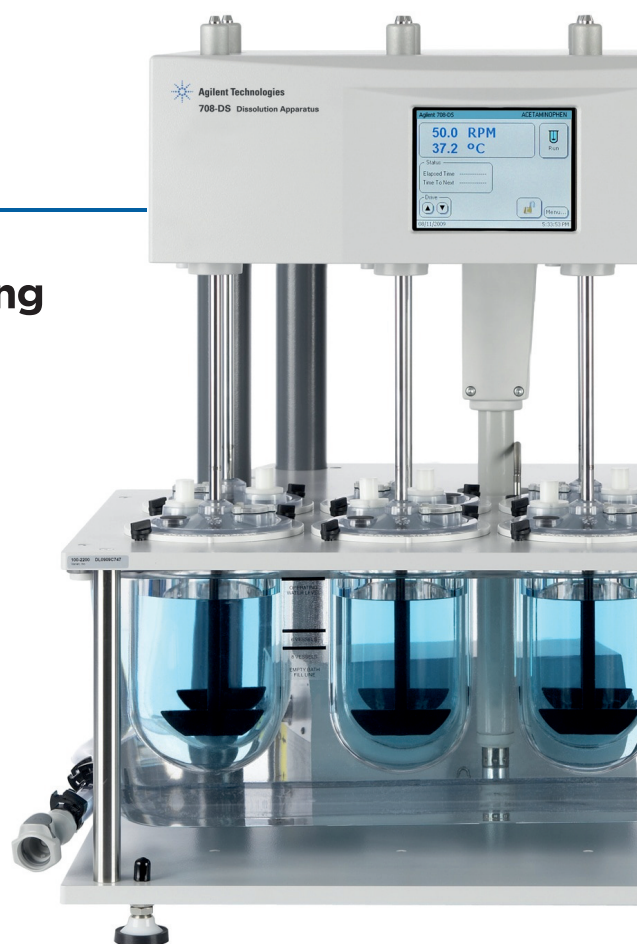




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Dissolution pH monitoring and controlling system for Agilent 708-DS Dissolution Apparatus



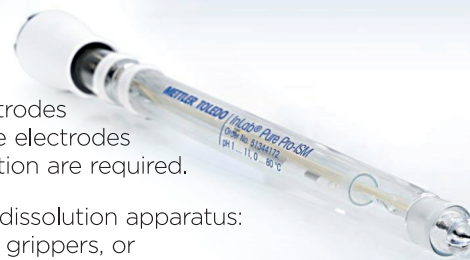
Dissolution pH monitoring and controlling system for Agilent 708-DS Dissolution Apparatus

pH monitoring unit

The pH monitoring unit consists of 6 or 8 high-quality pH electrodes with extended cables. It is also possible to use the ion-selective electrodes if the measurements of ionic concentration in an aqueous solution are required.

There are two possibilities for mounting the electrodes on the dissolution apparatus:

- electrodes are fixed on the covers of the vessels with special grippers, or
- electrodes are movable (could be lifted up and down) using sampling manifold.



pH controlling unit

The **relay-output** unit serves for precise sparging of carbon dioxide or nitrogen in each vessel to control pH value and time-controlled by relays. Gas flow control valves enable the exact flow rate of the gas.



software

The software runs on Microsoft Windows operating systems (Windows XP, Vista, Windows 7, 8, 10). The results are displayed in tabular and graphic form. The measuring cycle and measuring time limit can be set in a wide range. Single and simultaneous pH calibration is possible. The control set up enables the individual settings for the pH set point and control parameters for each channel.

specifications

Dimensions & Weight: 300 mm x 200 mm x from 100 mm (LxWxH); 2 kg

Power Supply: 12 V DC stabilized, 1200 mA, DC Power socket, 21 mm

Connection to the Computer: Serial Data Transmission RS232, RS232 to USB Converter is also provided.

Sensor Connections: BNC sockets for pH-, ORP- and Ion-selective electrodes.

Sensors: pH: accepts all types including pH electrodes with built-in temperature sensor (Pt1000) or pH electrodes with separate PT1000 temperature sensors and pH microelectrodes.

Measuring Range, Resolution and Accuracy:

pH Range: 0.00 to 14.00.

pH Resolution: 0.01 pH unit

pH Accuracy: 0.01 pH unit

The **Resolution** is approximately 0.5% of the measured value depending on the range.

The **Accuracy** is highest near the calibration point, about 0.5%. It is therefore recommended to calibrate close to the expected sample value.

