Water 4 Position Multicell Holder Accessory

Installation category I

Pollution degree 2

Equipment class III

Safety information

Before using this accessory, you must read the Safety Practices and Hazards section in your Agilent Cary Eclipse User's Guide.

A link to the Safety section can also be found on the main page of the Agilent Cary Eclipse Help.

If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

Introduction

The Water-thermostatted 4 Position Multicell holder for the Agilent Cary Eclipse is an accessory that permits fluorescence measurements on up to four samples, while controlling the temperature and rate of stirring.

Unpacking notes

Make sure that all of the adhesive tape, plastic and cardboard is removed before operating the Water Multicell Holder.

Installation

1. Turn the Agilent Cary Eclipse instrument power off using the switch on the front right side of the instrument.
2. Slide the top panel of the sample compartment all the way back and completely remove the front panel by sliding it upwards. Ensure that the sample compartment is empty.
3. Lift the Multicell Holder by the handle and hold the end of the hose in your other hand. Rest the accessory at the front of the sample compartment in order to allow access to the D-shaped, 25-pin port at the left side of the rear sample compartment wall. Connect the cable plug to the 25-pin port.

4 Ensure that the fastening lever is in the open position (i.e., to the left). Hold the extended nose (the black metal flange which contains the stirring controls, see Figure 1) and align the two holes on the base of the accessory with the locating pins on the floor at the rear of the sample compartment. Move the fastening lever from left to right to lock the accessory into position.

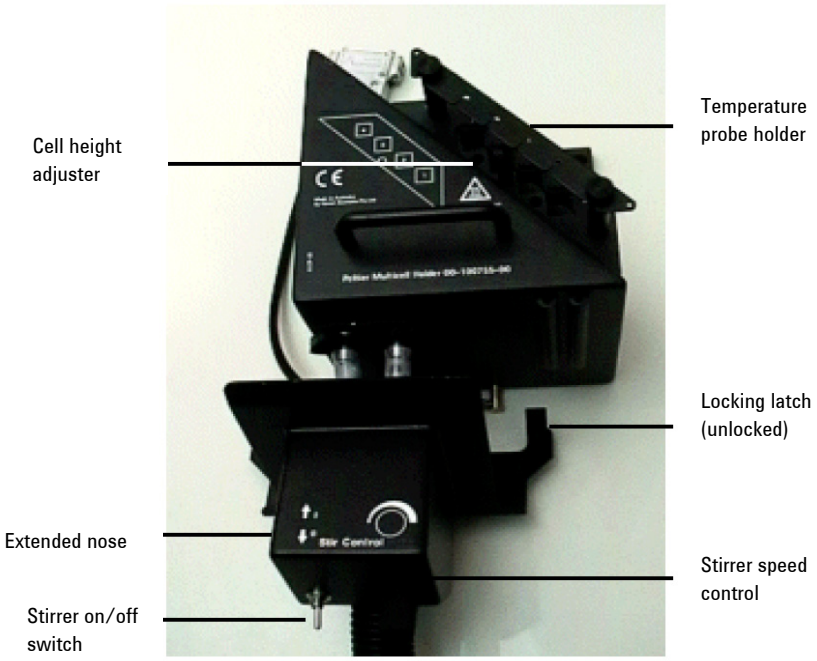

Figure 1. Water 4 Position Multicell Holder accessory

5 Ensure the two black locking latches at the back of the extended nose are pointing upwards (unlocked, see Figure 1). Position the extended nose into place by aligning its locating pins with the holes in the front of the sample compartment floor. Lock the extended nose into position by pushing the locking latches downwards.

6 Slide the special door for thermostatted accessories into position ensuring the electrical cable is tucked neatly into the sample compartment.

7 Before the accessory can be thermostatted you need to connect the hoses to the Agilent PCB-150 Circulating Water Bath or other appropriate circulating water bath. To do this, connect the two black hose ends to the bath inlet and outlet connections. Ensure the water bath has sufficient liquid for circulation before you turn the bath on.

8 Connect the nine pin end of the communication cable to a free serial port at the rear of the PC (e.g., COM 1). Connect the other end of this cable to the plug at the rear of the PCB-150.

NOTE The temperature probe holder (see Figure 1) that spans the two black posts on the multicell holder should be removed when inserting or removing cuvettes.

Operation

Operation of the accessory is through the Cary Eclipse software, with the exception of the stirrer control which is located on the front of the extended nose.

To use the multicell holder:

1 From the 'Setup' dialog, select the 'Accessories' tab. (See Figure 2)

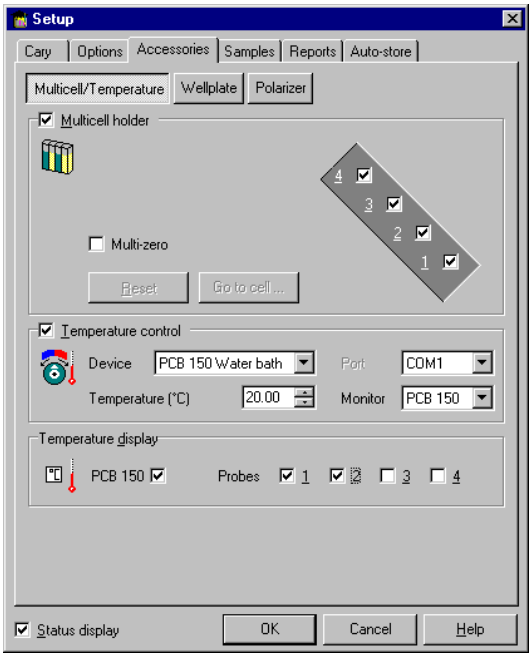

Figure 2. Accessories tab showing a typical setup of the multicell holder accessory

2 Select 'Multicell holder' and from the cell diagram, select the number of cells to use.

3 To enable temperature control (optional)

   a If using the PCB-150 water bath:

      i. Select 'Temperature Control'.

      ii. In the 'Device' list, click **PCB 150 Water bath.**

      iii. In the 'Port' list, click the appropriate COM port. This is the port you connected the communication cable to at the back of the PC.

      iv. Enter the required temperature and select the monitor. This monitor will only allow data collection to begin when the temperature of the monitoring device is within ±0.5 °C of the temperature specified.

   b If using a non-Agilent water bath:

      i. Select 'Temperature Control'.

      ii. In the 'Device' list, click **None.**

      iii. Enter the required temperature and select the monitor. This monitor will only allow data collection to begin when the temperature of the monitoring device is within ±0.5 °C of the temperature specified.

4 To display the temperature of other items in the Status Display window, select these items from the Temperature display option. Figure 2 shows a typical setup of the multicell water accessory.

5 Click **OK** to exit the 'Setup' window.

6 Select **Start** to begin data collection.

Specifications

For environmental and power supply requirements, refer to your Agilent Cary Eclipse Site Preparation Guide. This product is suitable for indoor use only.

Connections

25-pin D-range connector on flying lead

Two water circulation tubes (connect to PCB-150 Circulating Water Bath or other appropriate circulating water bath)

Weight

Packed	9.8 kg (21.6 lb)
Unpacked	3.6 kg (7.9 lb)

Dimensions

Packed	765 x 360 x 325 mm (30.1 x 14.2 x 12.8 in)
Unpacked	180 x 320 x 180 mm (7.1 x 12.6 x 7.1 in)

Maintenance and cleaning

All cleaning should be done with a soft cloth. If necessary, this cloth can be dampened with water or a mild detergent to clean black painted surfaces. Do not use organic solvents or abrasive cleaning agents.

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