

# POLYMETRON 9525 DEGASSED CATION CONDUCTIVITY SYSTEM

## Applications

- Power



## Simple to Integrate. Simple to Operate.

An integral part of a complete Power water analytics system, Hach®'s degassed cation conductivity (DCCP) system measures specific conductivity (SC), cation conductivity (CC), and degassed cation conductivity (DCC) and helps to reduce plant start-up time. This comprehensive approach saves you time on design, installation, training, maintenance, and operation.

### Reliable measurements

A new way of monitoring based on the Polymetron 9523 + DCCP calculated pH, delivering reliable results that save you critical time and effort.

### Save time on maintenance and set-up

The degassed conductivity system is easy to install and requires low annual maintenance as well as easy set-up with cation conductivity and specific conductivity instrumentation.

### Flexible and compact design

The Polymetron 9523 cation conductivity analyser can be combined with the degassed conductivity system in a single panel or separated in order to meet the need of each customer.

### Reduce training complexity

A single platform minimises time required to teach and learn product operations, getting new systems in use faster.

## Technical Data\*

<b>Dimensions (H x W x D)</b>	Degas System: 810 mm x 560 mm x 330 mm  DCCP System (optional): 810 mm x 830 mm x 330 mm
<b>Weight</b>	36 kg (50 kg for DCCP System)
<b>Power requirements (Voltage)</b>	100 - 240 V AC
<b>Power requirements (Hz)</b>	50/60 Hz
<b>Main supply voltage fluctuation</b>	±10 % of nominal voltage
<b>Power consumption</b>	1.6 k VA
<b>Operating temperature range</b>	Recommended operating temperature: 23 - 27 °C
<b>Ambient temperature</b>	2 - 50 °C
<b>Storage conditions</b>	0 - 50 °C  0 - 85 % relative humidity, non-condensing
<b>Cell constant k</b>	0.01 cm <sup>-1</sup>
<b>Measuring range conductivity</b>	0.01 - 200 µS/cm

<b>Accuracy</b>	< 2%
<b>Power requirements Controller</b>	100 - 240 V AC ±10 %, 50/60 Hz
<b>Enclosure waterproof rating</b>	IP66 / NEMA 4X
<b>Flow</b>	100 - 150 mL/min; 6 - 9 L/h
<b>Fitting</b>	Sample inlet/outlet connections: ¼ inch tube fitting
<b>Cooling water consumption</b>	3.8 - 11.4 L/min
<b>Certifications</b>	CE, UL, CSA

Detailed specifications for the system components are available on [hach.com](http://hach.com) & in the appropriate manuals:

Polymetron 9523 analyser - DOC023.98.93065

Polymetron 9500 controller - DOC023.98.93058

Polymetron 8315 conductivity sensor - DOC023.98.93060

*\*Subject to change without notice.*

## Principle of Operation

The Polymetron 9525 Degas System removes CO<sub>2</sub> and measures degassed conductivity from the sample stream. CO<sub>2</sub> gas is removed from the sample stream by heating the sample and distilling the liquid sample through the crossover section. CO<sub>2</sub> gas is removed through the steam vent, and distillate flows through the sample cooler before conductivity is measured. If the Polymetron 9523 Specific and Cationic Conductivity Analyser is also used, the system measures specific, cation and degassed conductivity. The combined system is known as the Polymetron 9525 Degassed Cation Conductivity (DCCP) System.



## Order Information

### Degas System

- 9525.99.0020** Polymetron 9525 Degas System, 100 - 240 V AC  
**9525.99.20CC** Polymetron Degassed Cation Conductivity Panel Kit

The Kit includes (1 ea.):

- 9525.99.0020 Polymetron 9525 Degas System,  
9523.99.09P4 Polymetron 9523 Specific and Cationic Conductivity Analyser,  
and pH Calculator, with 5x 4-20 mA Outputs, 100 - 240 V AC,  
9525.99.7040 Degas System Extension Panel Kit

### Accessories

- 9525.99.7031** Degas System Heater, 240 V  
**9525.99.7040** Degas System Extension Panel Kit  
**9525.99.7050** Degas Temperature Controller  
**9525.99.7060** Degas System Sample Cooler  
**4643600** Flow meter, 1.2 - 18 L/h, with ¼" OD tubing fittings  
**694=000=001** Adjustable flow meter, 0 - 16 L/h

### Be certain in your measurements with a first class Service Partner. Be confident with Hach Service.

By having regular on-site preventative maintenance and calibration, you maximise your measurement reliability and instrument uptime. Hach Service Programs give you full assurance to keep your control of your plant process/operations, and you stay within your budget.

#### Start-Up:

Commissioning, Instruction and Training of your operating personnel to ensure you get the best performance from your instrumentation from the first day you use it.

#### Service Agreement:

Hach offers a wide range of service agreements that can be tailored to you to help maximise your measurement reliability and instrument uptime.

*Contact us to get a service offering designed for you.*