

Sensor cassette front and rear views

Introduction

The sensor cassette is designed for use with whole blood or quality control solutions. The sensor cassette contains a low volume, flow-through cell. All the measuring sensors for pH, blood gas, electrolytes and glucose are contained in a multi-use disposable cassette assembly. The cassette flowcell also contains a reference electrode for the potentiometric sensors and an integral temperature sensor and heating element for precise temperature control.

Each sensor cassette contains a smart chip that provides information to the system regarding the type and status of each sensor cassette. The analyzer automatically reads this information when the cassette is installed onto the analyzer. While in-use the analyzer also records additional information on the smart chip. Information recorded in the smart chip includes:

- Lot number
- Serial number
- Parameter panel
- Number of tests allowed
- Number of tests remaining
- Compatible analyzer configuration (the type of analyzer that the sensor cassette can be installed on)
- Install by date (the last day this sensor cassette can be installed onto an analyzer)
- Installation date (the date this cassette was first installed onto an analyzer)
- Analyzer serial number (the analyzer onto which this cassette is currently installed)
- Expiration date (date this sensor cassette will expire once installed)

SC types

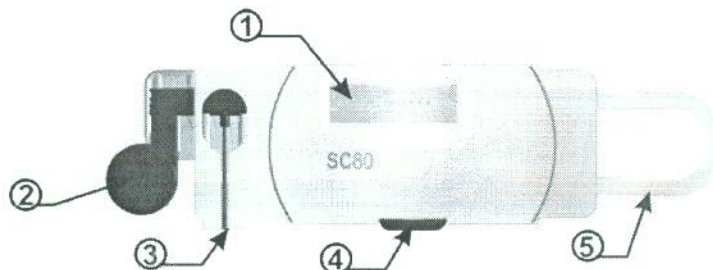
There are two sensor cassette designs, SC80 and SC80 CO-OX:

- One group of SC80 sensor cassettes is for use in the ABL80 FLEX analyzer with the FLEX software configuration
- A second group of SC80 sensor cassettes is for use in the ABL80 FLEX analyzer with the BASIC software configuration
- SC80 CO-OX sensor cassettes are for use in the ABL80 FLEX CO-OX analyzer
- A second type of SC80 CO-OX sensor cassette is specifically designed for use in the ABL80 FLEX CO-OX analyzer with the OSM software configuration. This version does not include a sensor window.

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Sensor cassette front and rear views, *Continued*

Front view – SC80



Parts and functions – SC80

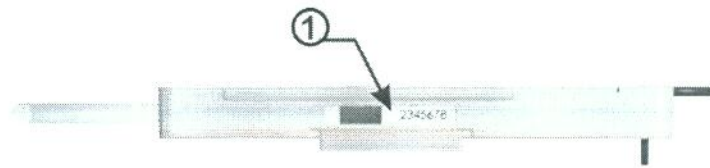
The table below describes the function of the parts above.

Item	Part	Function
1.	Sensor window	Allows viewing of the measuring chamber. All measuring sensors are located here.
2.	Inlet flap	For positioning the inlet probe. The lower (45°) position is for syringe samples and QC ampoule introduction. The upper (90°) position is for capillary sample introduction.
3.	Inlet probe	For introducing all samples into the measuring chamber
4.	Release latch	For disengaging and removing the cassette
5.	Peristaltic pump tubing	Transport path for all solutions to and from the measuring chamber

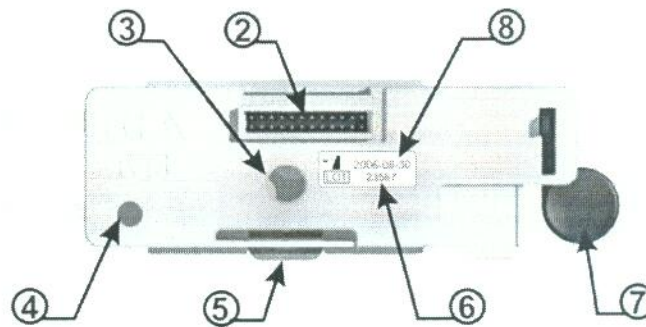
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Sensor cassette front and rear views, *Continued*

Top view – SC80



Rear view – SC80



Parts and functions – SC80

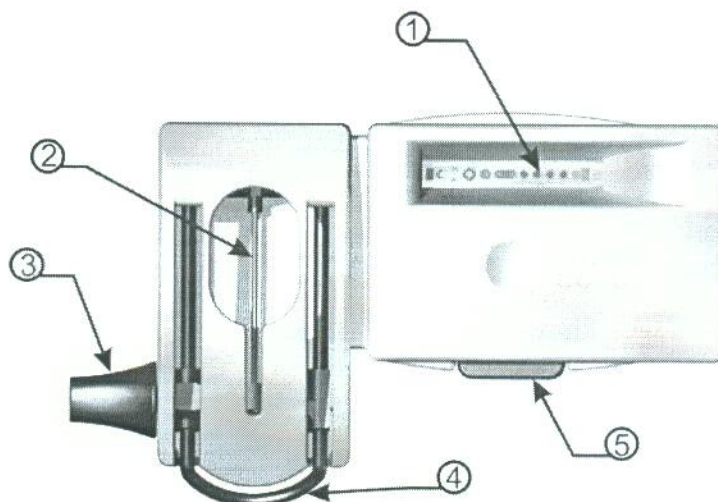
The table below describes the functions of the parts indicated above.

Item	Part	Function
1.	Serial number label	Provides sensor cassette serial number
2.	Sensor connection pins	Provides the electronic connection between the sensor cassette and the analyzer
3.	Connection guide	For guiding the sensor cassette onto the analyzer
4.	Fluid port	Transport path for fluids
5.	Release latch	For disengaging and removing the cassette
6.	Lot number	Displays the lot number of the sensor cassette
7.	Inlet flap	For positioning the inlet probe
8.	Install by date	Displays the final day the sensor cassette can be installed

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Sensor cassette front and rear views, *Continued*

Front view –
SC80 CO-OX



Parts and functions – SC80 CO-OX

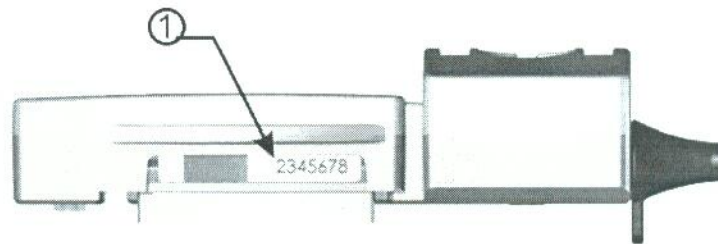
The table below describes the function of the parts above.

Item	Part	Function
1.	Sensor window	Allows viewing of the measuring chamber. All measuring sensors are located here. Cassettes compatible with the OSM software do not include a sensor window.
2.	Inlet probe	For introducing all samples into the measuring chamber
3.	Inlet handle	For raising the inlet probe to either a 45° angle for syringe and ampoule samples or to a 90° angle for capillary tube samples. Also controls the automatic wiping mechanism that cleans the outer surface of the inlet probe.
4.	Guide	Guides the placement of the sample
5.	Release latch	For disengaging and removing the cassette

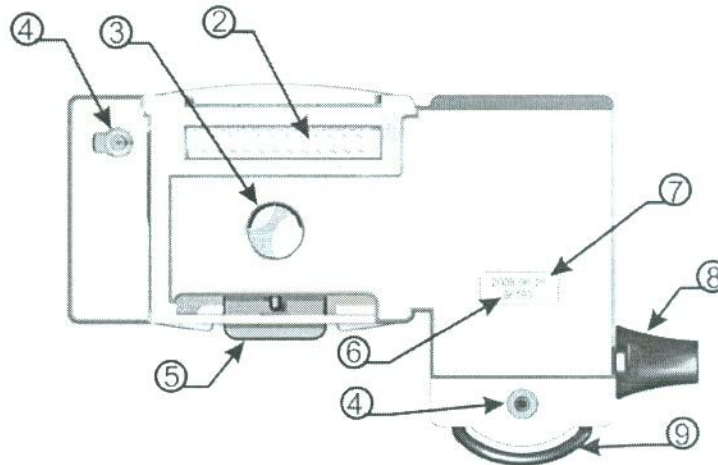
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Sensor cassette front and rear views, *Continued*

Top view – SC80
CO-OX



Rear view –
SC80 CO-OX



Parts and functions – SC80 CO-OX

The table below describes the functions of the parts indicated above.

Item	Part	Function
1.	Serial number label	Provides sensor cassette serial number
2.	Sensor connection pins	Provides the electronic connection between the sensor cassette and the analyzer
3.	Connection guide	For guiding the sensor cassette onto the analyzer
4.	Fluid ports	Transport path for fluids
5.	Release latch	For disengaging and removing the cassette
6.	Lot number	Displays the lot number of the sensor cassette
7.	Install by date	Displays the final day the sensor cassette can be installed
8.	Inlet handle	For raising and lowering the inlet probe
9.	Guide	Guides the placement of the sample