

## Spec Sheet

# SID 2 option



The SID 2 option is an option for the GERSTEL Multi Purpose Samplers MPS Robotic, MPS Robotic Pro and MPS Liquid. It is a product for general laboratory use. It enables one-dimensional and two-dimensional barcodes on vials and TD tubes to be read as part of the automated sample preparation process.

The barcode reader offers 2 modes of operation – reading and comparing. When reading, the barcodes are written into a results file. When comparing, the barcodes are compared with barcodes in the sequence or sample table.

The barcodes are located on vials or TD tubes standing in a suitable tray. In the case of the vials, the barcodes are affixed to the vials. In the case of the TD tubes, the barcodes are printed on the TD tubes themselves.

The barcode reader can read barcodes in different formats.

### System requirements

To use the option, you will need the following hardware:

- A Multi Purpose Sampler MPS Robotic Pro or MPS Robotic or MPS Liquid
- The ATEX option or the TD 3.5+ Automation option (only when using TD tubes)
- A standard tray to store the samples on the MPS
- A TD tray to store the samples on the MPS (only when using TD tubes)
- Vials with barcodes affixed to them or TD tubes with barcodes printed on them

- A computer equipped as follows:
  - Operating system – Windows 7 or above, 64-bit version
  - 1 free USB interface
  - MAESTRO software for MPS Robotic installed

### Control

- With the GERSTEL MAESTRO software, optionally integrated into chromatography data systems from Agilent Technologies, coupled to chromatography data systems from AB Sciex and Thermo Scientific or for stand-alone operation
- Sample preparation steps can be assembled by a click of a mouse

### Barcode reader

#### Specific features

- Barcode illumination using LEDs allows the module to be operated when the level of ambient brightness is low
- Barcode resolution 0.25 mm

#### Compatible vials and TD tubes

- 2-mL, 4-mL, 10-mL or 20-mL vials
- TDU tubes with a printed barcode
- TD-3.5+ tubes with a printed barcode

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### Readable 1D barcode formats

- Codabar
  - ABC Codabar
- Code EAN/UPC
  - EAN 8
  - EAN 13
  - ISSN
  - UPC-A
  - UPC-E
- Code 11
- Code 39
  - Code 32
  - Code 39
- Code 93
- Code 128
  - GS1-128
- Code ISBT 128
- Datalogic 2 of 5
- GS1 Databar
  - GS1 Databar Omnidirectional
  - GS1 Databar Expanded
  - GS1 Databar Limited
- Interleaved 2 of 5
- Industrial 2 of 5
  - Code IATA
- MSI
- Plessey
- Standard 2 of 5
- All barcodes without line breaks

### Maximum size of 1D barcodes

- 2-mL vials, max. width 18 mm
- 4-mL vials, max. width 30 mm
- 10-mL vials, max. width 25 mm
- 20-mL vials, max. width 50 mm

### Readable 2D barcode formats

- Aztec Code
- Han Xin Code
- Data Matrix

- MaxiCode
- PDF417
- Micro PDF417
- QR Code
- Micro QR Code
- UCC Composite
- Postal Code
- All barcodes without line breaks

### Maximum size of 2D barcodes

- 2-mL vials, max. width 9 mm
- 4-mL vials, max. width 11 mm
- 10-mL vials, max. width 17 mm
- 20-mL vials, max. width 17 mm

### Operating conditions

- 5 ... 40 °C
- Relative humidity 50 ... 60%, non-condensing
- Max. 4615 m above normal height null (sea level)
- Ambient brightness not exceeding 100 000 lx, not in direct sunlight

### Storage conditions

- 5 ... 40 °C
- Relative humidity not exceeding 90%, non-condensing
- Max. 4615 m above normal height null (sea level)

### Electrical specifications

- Power consumption maximum 1.5 W
- Power consumption on standby 0.3 W

### Safety

- Type of protection IP 54

### Dimensions (W x H x D)

- 11.3 cm × 10.4 cm × 23.2 cm

### Weight

- 1.19 kg

## Trademarks

- Agilent® is a registered trademark of Agilent Technologies, Inc., USA
- Sciex® is a registered trademark of AB Sciex Pte. Ltd
- Thermo Scientific® is a registered trademark of Thermo Fisher Scientific, Inc., USA
- DataBar® is a registered trademark of GS1, Association Internationale sans but lucratif, Belgium
- Windows® is a registered trademark of the Microsoft Corporation in the United States of America and other countries

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