

Liconic LPX220



Manufacturer: Liconic Instruments
Model Number: LPX220
Web Address: www.liconic.com

The LPX220 is the successor of the legacy 189 plate capacity MPH (Micro Plate Hotel). Since the legacy model we increased LPX220's capacity to 220 MTP, we improved its access speed and increased its flexibility for integration. The LPX220 can be integrated in four different orientations. Left, right back and side access is made possible by one single system.

Hotel: Commands

▶ **STX2Activate(id)** - Opens serial communication and initialises the StoreX.

| | | |
|----|---------|-------------------------|
| id | Integer | identifier of the unit. |
|----|---------|-------------------------|

▶ **STX2Deactivate(id)** - Closes serial communication.

| | | |
|----|---------|-------------------------|
| id | Integer | identifier of the unit. |
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▶ **STX2Reset(id)** - Resets the StoreX after the error. STX2Activate should be invoked again to continue operations, or the "Reset" button should be pressed.

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|----|---------|-------------------------|
| id | Integer | identifier of the unit. |
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▶ **STX2AlternateXferStation(id, stationID)** - Switch between transfer stations.

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| id | Integer | identifier of the unit. |
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| stationID | Integer | identifier of the transfer station. Range of values: 1 to 2. |
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▶ **STX2SwapIn(id)** - Rotates the swap station by 180 degrees.

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| id | Integer | identifier of the unit. |
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▶ **STX2SwapOut(id)** - Rotates the swap station back to the home position.

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|----|---------|-------------------------|
| id | Integer | identifier of the unit. |
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▶ **STX2GetSysStatus(id)** - Returns the value of the status register in the decimal format.

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|----|---------|-------------------------|
| id | Integer | identifier of the unit. |
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▶ **STX2ServiceReadBarcode(id, slot, level)** - Reads the barcode of a microplate at the specified location.

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|-------|---------|------------------------------------|
| id | Integer | identifier of the unit. |
| slot | Integer | slot position for the microplate. |
| level | Integer | level position for the microplate. |

▶ **STX2ServiceIsPlateAtLocation(id, slot, level)** - Verifies if the microplate is present at the specified location.

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|-------|---------|------------------------------------|
| id | Integer | identifier of the unit. |
| slot | Integer | slot position for the microplate. |
| level | Integer | level position for the microplate. |

▶ **STX2Inventory(id, file, ppd, bcr)** - Saves the inventory of the hotel into the specified file.

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|------|---------|--|
| id | Integer | identifier of the unit. |
| file | String | name of the file where the inventory is saved. |
| ppd | Boolean | true: uses the plate present detector, false: does not use the plate present detector. |
| bcr | Boolean | true: uses the barcode reader, false: does not use the barcode reader. |

▶ **STX2ServiceMovePlate(srcId, srcPos, srcSlot, srcLevel, transSrcSlot, srcPlateType, dstId, dstPos, dstSlot, dstLevel, transDstSlot, dstPlateType)** - Moves a microplate from the source location to the target location. This operation allows to move the plate within the bound of one unit or between the units.

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|--------------|---------|--|
| srcId | Integer | identifier of the source unit. |
| srcPos | Integer | source position for the move. 1: transfer station, 2: slot and level, 3: shovel, 4: tunnel. Range of values: 1 to 4 . |
| srcSlot | Integer | slot for the source location. |
| srcLevel | Integer | level for the source location. |
| transSrcSlot | Integer | transport slot for the source unit when a plate is moved between different units. It is even for extended unit and odd for base unit. |
| srcPlateType | Integer | type of the microplate present at the source location. 0: MTP, 1: DWP, 3: P28 |
| dstId | Integer | identifier of the destination unit. |
| dstPos | Integer | destination position for the move. 1: transfer station, 2: slot and level, 3: shovel, 4: tunnel. Range of values: 1 to 4 . |
| dstSlot | Integer | slot for the destination location. |
| dstLevel | Integer | level for the destination location. |
| transDstSlot | Integer | transport slot for the destination unit when a plate is moved between different units. It is even for extended unit and odd for base unit. |

| | | |
|--------------|---------|--|
| dstPlateType | Integer | type of the microplate present at the destination location. 0: MTP, 1: DWP, 3: P28 |
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▶ **STX2TransferStPosition(id, position)** - Rotates the transfer station.

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|----------|---------|---|
| id | Integer | identifier of the unit. |
| position | Integer | specifies an angle of rotation: 0 - 0 degrees, 1 - 90 degrees, 2 - 180 degrees. |

Hotel: Errors

🔥 **InstrumentError()** - An error occurred during command execution.

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