

Liconic STX220



Manufacturer: Liconic Instruments
Model Number: STX220
Web Address: www.liconic.com

The STX220 is the classical 198MTP-size incubator improved with increased 220 MTP capacity and newly implemented flush gate. The flush gate simplifies integration by omitting any obstacle in the gate area. The STX220 series supports a wide temperature and humidity range available as IC (Incubation), HC (high humidity cold storage), DC (dry, low humidity cold storage), HR (high humidity wide temperature range incubator), DR (dry, low humidity wide temperature range storage), and AR (adjustable humidity).

Incubator: Commands

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

id	Integer	identifier of the unit.
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▶ **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.

id	Integer	identifier of the unit.
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▶ **STX2ReadActualClimate(id)** - Reads the actual climate values.

id	Integer	identifier of the unit.
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▶ **STX2WriteSetClimate(id, t, h, co2, n2)** - Sets the climate values.

id	Integer	identifier of the unit.
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t	Integer	target temperature in celcius.
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h	Integer	target relative humidity in percent. Range of values: 1 to 100 .
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co2	Integer	target CO2 concentration in percent. Range of values: 1 to 100 .
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n2	Integer	target N2 concentration in percent. Range of values: 1 to 100 .
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▶ **STX2ReadSetClimate(id)** - Reads the target climate values.

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

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.

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

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

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

id	Integer	identifier of the unit.
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slot	Integer	slot position for the microplate.
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level	Integer	level position for the microplate.
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▶ **STX2ServiceIsPlateAtLocation(id, slot, level)** - Verifies if the microplate is present at the specified location.

id	Integer	identifier of the unit.
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slot	Integer	slot position for the microplate.
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level	Integer	level position for the microplate.
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▶ **STX2Inventory(id, file, ppd, bcr)** - Saves the inventory of the incubator into the specified file.

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

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

▶ **STX2TransferStPosition(id, position)** - Rotates the transfer station.

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

Incubator: Errors

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

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