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QInstruments BioShake 3000 T-ELM

Manufacturer: QUANTIFOIL Instruments GmbH
Model Number: QInstruments-Bioshake3000T-ELM
Web Address: www.qinstruments.com

Bioshake3000-T-ELM is the world's smallest industrial All-in-One ThermoShaker. It is specially designed for integration in robotic environments. It provides Automatic Edge Locking Mechanism (ELM) for robotic gripping, fast and high-precision heating from ambient to 99C, mixing speed up to 3,000 rpm at 2 mm orbit,and homing position accuracy of +/- 0.1mm.

Shaker: Commands

- **resetDevice( )** - Restart the controller.
- **shakeOn( )** - Start the shaking with the current mixing speed.
- **shakeOff( )** - Stop the shaking and return to homing position.
- **getShakeState( )** - Return the state of the shaker.
- **getShakeTargetSpeed( )** - Return the target mixing speed.
- **setShakeTargetSpeed(speed)** - Set the target mixing speed.

speed	Integer	Target mixing speed.

- **getShakeActualSpeed( )** - Return the current mixing speed.
- **getShakeMinRpm( )** - Return the least set point.
- **getShakeMaxRpm( )** - Return the biggest set point.
- **tempOn( )** - Activate the temperature control.
- **tempOff( )** - Desactivate the temperature control.
- **getTargetTemp( )** - Return the target temperature.
- **setTargetTemp(temperature)** - Set the target temperature in 1/10 degrees.

temperature	Integer	Target temperature.

- **getActualTemp( )** - Return the current temperature.
- **getTempMin( )** - Return the least set point of temperature.
- **getTempMax( )** - Return the biggest set point of temperature.
- **getTemp40Calibr( )** - Return the temperature on the calibration point at 40 degree Celsius.
- **setTemp40Calibr(temperature)** - Set the temperature on the calibration point at 40 degree Celsius in 1/10 degrees.

temperature	Integer	Temperature on calibration point.

getTemp90Calibr( ) - Return the temperature on the calibration point at 90 degree Celsius.

setTemp90Calibr(temperature) - Set the temperature on the calibration point at 90 degree Celsius in 1/10 degrees.

temperature	Integer	Temperature on calibration point.

setTempLoggingOn( ) - Enable the temperature logging function.

setTempLoggingOff( ) - Disable the temperature logging function.

setElmShakePos( ) - Close the Edge Locking Mechanism (ELM). The microplate is now fixed.

setElmUnlockPos( ) - Opens the Edge Locking Mechanism (ELM) for gripping microplates.

getElmState( ) - Return the state of Edge Locking Mechanism (ELM).

BioShake Error

BioShakeError(code, description) - Error occurred during command execution.

code	Integer	Error code.
description	String	Error description.

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