

SOP163/06	Installation Environment Specification	
Page 1 of 3	Product: <b>Automatic TLC Sampler 4</b>	
History: Created by: JM Date: 14. August 2008 Replaces: SOP 163/05 Date: 11. March 2008 Reviewed by: AG Date: 14. August 2008 Approved by QC: JB Date: 14. August 2008		

Purpose of this document: To ensure that all key aspects of the installation adhere to the manufacturer's recommendations, codes, safety parameters and design parameters.

Responsibility: Customer or CAMAG Approved Product Specialist or Service Engineer.

## 1 Introduction

This document describes the laboratory environment necessary for the Automatic TLC Sampler 4, which has to be available at installation to ensure reliable operation of the instrument.

## 2 Installation environment

The place for installation should meet the following requirements:

Bench space	Width 630mm (add space for cables approx. 100mm) Depth 530mm Height 500mm Weight 36kg
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*Add adequate space for connections and a PC next to the instrument.*

*Check winCATS Environmental specs for minimum PC configuration*

Operating temperature	The temperature should be within a range of 18 to 35 degrees centigrade and free from significant variations.
Humidity	Humidity and temperature conditions must not cause condensation.
Atmospheric conditions	Adequate ventilation free from acidic, alkaline or other gas that may corrode metal or painted surfaces must be secured.

### Other requirements:

- Do not place the instrument in a location where the temperature undergoes significant changes (e.g. under an air conditioning duct or by a window). Significant changes in temperature will affect the performance of the unit.

SOP 163/06	Installation Environment Specification	
Page 2 of 3	Product: <b>Automatic TLC Sampler 4</b>	

- Do not place the instrument in direct sunlight. Direct sunlight may create significant temperature changes which will affect the performance of the system. Direct sunlight may discolor the instrument paint surfaces.
- Do not use the instrument in an environment with moving ambient air (draft).
- Do not expose the instrument to any strong vibration or shock.
- Do not operate the ATS4 in rooms with danger of explosions.
- Avoid placing the instrument near equipment that radiates heat. Do not place the instrument near gas burners, electric heaters or ovens.
- Do not place the instrument near equipment that generates intense magnetic fields such as electric welding equipment, high frequency furnaces, pole transformers, etc.
- Protect the instrument from excessive dust.
- Connect the instrument to power lines that are free from sudden changes or voltage fluctuations.
- If you must use power motor driven equipment (such as a stirrer or vibrator) in the same line as your instrument, ensure that a noise reduction unit is in the same power line

## 2.1 Conditions for the installation

Confirm that the following requirements exist before installing the instrument:

### Power supply and ground

Line voltage:	100 – 250VAC
Frequency:	47 – 63 Hz
Power capacity:	60 VA
Ground terminal:	A grounded outlet should be within 2 meters of the instrument.

### Gas supply

N2 or compressed air	Required pressure 4.5 - 6 bar (65-87psi) Gas consumption 0.2 - 0.3 L/min (spotwise) 0.8 - 2.0 L/min (bandwise)
PC interface:	Serial port RS 232 (see also SOP 240 winCATS Environmental Specifications)

SOP 163/06	Installation Environment Specification	
Page 3 of 3	Product: <b>Automatic TLC Sampler 4</b>	

**History:**

Version 6: *(14. August 2008)*

- SOP Header: "Reviewed by" added
- Line voltage changed from 85~270V to 100~250V

Version 5: *(11. March 2008)*

- PC interface (RS 232 port)
- Text added: Do not use the instrument in rooms with danger of explosions

Version 4: *(23. April 2005)*

- PC specification now in winCATS

Version 3: *(10. December 2003)*

- Windows 2000 only

Version 1- 2:

- No history records