LAZAPORT8™

LAZAPORT8 TEMPERATURE CALIBRATOR USER MANUAL

Klipspringer

Compliance with confidence

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1.0 INTRODUCTION

1.1 WHAT ARE THE KEY BENEFITS TO BE ACHIEVED IN USING LAZAPORT8?

The LazaPort8 probe calibrator provides 2 stable temperature reference points, accurate to within ±0.3°C. Depending on the standard models chosen. These 2 points are either 0°C and 100°C, or -18°C and 100°C. Other temperature points can be selected to suit customers' requirements. Replacing the traditional ice and boiling water mediums, potentially saves operatives' time and supports best Health & Safety practices. Multiple probes can be checked in a short period of time providing a daily ever-ready method of checking accuracy in high risk situations.

1.2 Electrical safety symbol.

Due to the sealed construction of the LazaPort8, only the mains input (IEC unit) set in the rear panel requires a safety symbol.

1.3 Responsibilities

This manual is to be kept for the entire working life of the machine, and is to be available for the operator at all times. It is considered an integral part of the equipment and to be read thoroughly before operation.

The owner should ensure relevant operation, maintenance and safety training and risk assessment is carried out in accordance with all relevant standards.

Documents provided remain the property of Klipspringer Ltd who reserves all rights, and requests that they are not to be made available to third parties. The information contained within this manual may undergo modifications due to ongoing product development.

Klipspringer Ltd declines any responsibility for personal damages, or damage caused to object(s), resulting from non-observance of this User Manual. Furthermore, Klipspringer Ltd does not accept liability for damages to individuals or object(s) in the following instances (but not limited to):

- Improper use of the LazaPort8, or utilisation by personnel not trained.
- Use not in conformity with the specific standards.
- Any deficiencies in scheduled annual service and recalibration.
- Changes or interventions not authorized.

2.0 EC DECLARATION AND CONFORMITY

Klipspringer Ltd declares that the items described are in compliance with the Low Voltage Directive 2006/95/EC.

2.1 Technical specifications

Power supply:
- 240V AC max mains-in supply fused at 5 Amp.

Environmental conditions:
- Optimum operating temperature range: +10...+25°C
- Storage conditions: +5...+55°C

Dimensions:
- 253(w), 250(d), 210(h – lids closed), 290(h – lids opened max.) mm.

Standard probe dimensions:
- See page 12 for standard options.
- Other sizes accommodated by special order.

Weight:
- 5.1kg

3.0 SAFETY WARNINGS

3.1 Introduction

The safety instruction or warnings are not intended to replace safety at work accident prevention standards, but to ensure awareness and observation of guidelines provided.

3.2 Safety notices

The LazaPort8 carries three safety notices:
- Indicating the use of high voltage supply: *(Electric shock risk).*
- Indicating the use of high temperature: *(Hot burn risk).*
- Indicating the use of low temperature: *(Cold burn risk).*

4.0 LAZAPORT8 – USE AND PERIODIC SAFETY CHECKS

4.1 Improper use

The LazaPort8 must only be used for its intended use as described within this manual and not modified in any way. *(This is high voltage equipment and if modified from its original design may cause injury or death).*
If for any reason the LazaPort8 enclosure is damaged this must be reported to Klipspringer Ltd immediately and the power supply to the attached machine isolated until a qualified person evaluates the damage.

4.2 Important regular annual return to Klipspringer Ltd for service and calibration

⚠ To ensure continued safe operation of the LazaPort8 for service and calibration it is vital that operational safety checks are carried out and documented. The responsibility for a safe working environment falls to the operator of the equipment in line with the essential Health & Safety at Work Act. Klipspringer Ltd accepts no responsibility if these vital checks are not carried out when required and injury results from a failure.

5.0 FREIGHT AND PACKAGING

The LazaPort8 will be suitably packaged for freight purposes by Klipspringer Ltd and a proven and appropriate freight route used.

5.1 Reception and handling

Upon receipt of the LazaPort8 equipment it should first be checked to ensure the packaging is not damaged in any way. If damage during transit has occurred this must be recorded with the carrier prior to signing any paperwork and noted accordingly on the copy delivery note; where necessary, photographs should be taken for future reference. It is advisable to physically check the instrument and power supply (as ordered and delivered) to ensure the shipment is complete.

6.0 INSTALLATION

6.1 Positioning and power supply

Position the LazaPort8 on a stable clean surface within 1.7 meters of an AC power supply socket. Ensure that the air space surrounding the unit (in particular the intake and exhaust grilles) are kept completely clear at all times. Avoid positioning the LazaPort8:

- In direct strong summer sunlight
- In direct air flow from an air conditioning unit
- In close proximity to hot air outlets or heating radiators.
- In oily, dust laden or humid atmospheres.

7.0 OPERATION

7.1 Start-up period

Check that the installation guide conditions are fully adhered to. Switch on the mains supply followed by the illuminated temperature indicators in the front panel.

7.2 Visual displays

Both LED displays in the front panel will display the storage temperature but will quickly begin to rise, or fall, to the pre-set designated temperatures. Allow from 15 to 30 minutes for displays to stabilize. This time may vary with extremes in ambient temperatures.

7.3 Installation and transposition of test probes

Once the hot and cold LED displays have stabilized, temperature probes can be inserted 4 in the left-hand hot ports and 4 in the right-hand cold ports. Providing the probes selected match the port sizes, response times to reach stability can be as quick as 10-15 seconds. Depending on number, and type, of probes, stability delays above 1 minute can be expected. Once the temperature displays have been checked to determine accuracy the 8 probes can be swapped between the temperature ports and the process repeated.

Temperature displays may initially fluctuate a degree or so, but will quickly regain the pre-set target. This is an expected deviation as the precision controllers undergo a process of initial hysteresis. Once stabilized, the temperatures will cycle either side of target by ±0.3°C.

8.0 OPERATING – GENERAL

8.1 Starting and stopping LazaPort8

The LazaPort8 is capable of running 24/7, but it is advisable, in the interest of longevity, to limit its operation to shift times, as response times are so convenient.

IMPORTANT – to obtain consistent and accurate results:

- Operate at ambient temperatures of +10°C...+25°C – avoid extreme ambient temperatures.
- Position away from direct sunlight.
- Avoid proximity to direct source of heat, e.g. radiator, PC etc.
- Do not operate beneath an air conditioning ventilator.
- Protect from oily / dust-laden / high humidity atmosphere.
- Do not use in proximity to a cooker or other source of high humidity.
- Thoroughly clean probes with moist wipes before insertion: failure to observe this instruction will lead to a build-up of debris within the ports, affecting accuracy and ease of operation.

⚠ The LazaPort8 does not provide a means to keep itself switched off after a mains power failure. When power returns, the unit will start working again. This must be considered an acceptable residual risk.

9.0 PERSONNEL TRAINING

9.1 Competence for operation

The LazaPort8 has been designed for ease of use and functionality. No particular skills are necessary for day-to-day operation. The operator is responsible to ensure a safe working environment for the personnel in the vicinity of the equipment and that all safety checks have been carried out successfully. Operators must remain aware of the necessity at all times during the operation of the calibrator to keep the air space around the unit completely clear and ensure that the intake and exhaust grilles are unimpeded.

⚠ *(Before using the LazaPort8 all relevant personnel must read this operating manual to ensure they are conversant with its operation).*

10.0 SERVICE AND MAINTENANCE

10.1 General maintenance

The LazaPort8 is specifically designed to be maintenance-free on the part of the customer. Periodic cleansing of the ports from any deposits left by test probes will assist in maintaining the accuracy of the calibration checks. However, we strongly advise that the instrument is returned to our service department every 12 months to avoid build-up of ingested airborne dust. We regret that Klipspringer cannot be held responsible where this routine is overlooked.

10.2 UKAS calibration and certification

Free issue traceable certificate supplied. Annual service and recalibration recommended. UKAS calibration available on request (strongly recommended).

10.3 All maintenance, service and annual calibrations

The LazaPort8 is locked down with security fixings and does not contain any user serviceable or replaceable parts. All other work must be carried out by Klipspringer Ltd technicians at the Ipswich service center:

- Klipspringer Ltd, Farthing Road, IPSWICH, IP1 5AP, UK
- Tel: 01473 461800
- Email: service@klipspringer.com

11.0 TROUBLE SHOOTING

11.1. Unable to maintain set operating temperatures?

Check that the recommended ambient operating temperatures prevail and that the LazaPort8 is not subjected to warm or cool draughts, intense sunlight etc. check that all air intake and exhaust vents remain completely free of obstruction.

11.2. Unusual disparity between LazaPort8 display and thermometer under test?

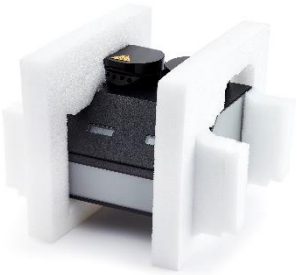
Switch off and allow to resume ambient temperatures. Check ports for build- up of residues introduced by soiled probes. Carefully clean with moistened lint using an instrument of smaller diameter than port bore size. Encrusted deposits may have to be removed when the unit is returned.

12.0 LAZAPORT8 PACKING INSTRUCTIONS

12.1. Correct preparation for transportation.

When returning the Lazaport8 calibrator for service, repair or recalibration to Klipspringer Ltd (Farthing Road, Ipswich, IP1 5AP) it is essential for the safety of this equipment that it is carefully prepared using the original bespoke carton and internal support frame (see below). If these have been mislaid, please call our service team on +44(0) 1473 461 800 or email sales@klipspringer.com to order replacements.

1.



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13.0 PRODUCT CONFIGURATIONS

LazaPort 8 is available in a number of different configurations to accommodate different temperature probe sizes and temperature points.

**	Product Code	Temperature Points[1]	Port sizes
☐	ECMP8-013030	0˚ and 100˚C	4x 3.0mm Ø*
☐	ECMP8-013333	0˚ and 100˚C	4x 3.3mm Ø*
☐	ECMP8-013347	0˚ and 100˚C	2x 3.3mm Ø 2x 4.7mm Ø*
☐	ECMP8-014747	0˚ and 100˚C	4x 4.7mm Ø*
☐	ECMP8-813030	-18˚ and 100˚C	4x 3.0mm Ø*
☐	ECMP8-813333	-18˚ and 100˚C	4x 3.3mm Ø*
☐	ECMP8-813347	-18˚ and 100˚C	2x 3.3mm Ø 2x 4.7mm Ø*
☐	ECMP8-814747	-18˚ and 100˚C	4x 4.7mm Ø*

* Port size should equal probe diameter. * Denotes number of ports at each temperature point.
** Tick denotes model supplied.
*** Custom port sizes available on request.

[1] NB. LazaPort temperature points are model specific and cannot be changed.

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