

- Before using, read this "Safety Instructions" thoroughly for proper operation.
- situation which, if not avoided, could result in serious consequences in some cases. if not avoided, could result in death or serious injury. CAUTION also indicates such hazardous of WARNING and CAUTION. WARNING indicates a potentially hazardous situation which, prevent the risk of harming or injuring people. Safety instructions are divided into two sections Satety Instructions written in this manual are intended for the proper use of our product to
- Caution minutes a promotion of the product is not handled properly. ludicates a potentially hazardous situation which could result in serious Warning review of property when the product is not handled property Indicates a potentially hazardous situation which could result in death or
- Atter reading this manual, keep it in a place where anyone can have access at any time The U mark within a black circle denotes the procedure which must be executed.

Precautions for Use

1FC 6P 1100074

DO NOT expose the product directly to food. It may violate the Food Sanitation Law.	DO NOT attempt to disassemble or service the products other than act may cause abnormal overheat or massembling fire disaster.	
spninseW∆		

Before Using Data Checker

Take out the instruction manual and make sure that the following items are included in your package. Спеск the Packaging



found, contact the dealer or the user support.

2

HIOKI E.E. CORPORATION



Data Checker

have access for reference

Model Name 3921

Thank you purchasing the Data Checker 3921.

Please read the Instruction Manual carefully

before using the system for proper operation

and keep it in a safe place where anyone can

Instruction Manual

OUser Memo

roduct name

Shop Name

Purchased date

Write the followings when you purchase this product.⊩

READING 3s : STOP ► EILEN 5s : START ► STOP

This memo will be surely helpful to send the product to service.

Phone

HIOKI

E-mail: os-com@hioki.co.jp

HIOKI USA CORPORATION

81 Koizumi, Ueda, Nagano 386-1192, Japan

TEL +81-268-28-0562 / FAX +81-268-28-0568

6 Corporate Drive, Cranbury, NJ 08512, USA

TEL +1-609-409-9109 / FAX +1-609-409-9108

HEAD OFFICE





-- 12

Contents

Before Using Data Checker ----

Operating Instructions ---- 5 to 7

Replacing the Battery ------8

Precautions for Use ------ 9

Disposal of Wasted Battery -- 11

Declaration of Conformity ---- 13

Functions ----- 3

Handling Batteries -- 10

Safety Instructions ---Name of Parts and

Functions List -----

Safety Precautions in

Specifications -----

Maintenance ----

Instruction Manual

1. Introduction A typical flow of data checker usage is introduced below. Ready the 3 6 5 0 for startup. Тір Run the optional 3 9 2 0 (or 3 9 2 0 - 0 1) data reader and PC to ready the 3 6 5 0 for startup Using the data checker, check for a thermal alarm. After a temperture alarm check, keep the data checker in contact for 5 seconds With the data checker, pause temperature measurement. Bring the data checker into contact for 3 seconds. Restart temperature measurement with the checker. Tip hemperature alarm detection in the 3 6 5 0 does not work while mperature measurement is stopped Temperature measureme is in progress Temperature measure is stopped. 5

Operating Instruction 1

3





Name of Parts and Functions

Reading lamp

Functions List

If 3650 temperature measurement is in progress

Themperature alarm detection

You can bring the data checker into contact with a 3 6 5 0 during temperature measurement to check for a temperature alarm instantly. (For more details, see "2. Temperature Alarm Detection Function.")

Temperature measurement pause function

You can stop temperature measurement in progress by bringing the data checker into contact with the 3 6 5 0 . (For more details, see "3. Temperature Measurement Pause Function.")

If 3650 temperature measurement is stopped

Temperature measurement restart function You can restart temperature measurement by bringing the data checker into contact with the 3 6 5 0, without needing to use a data reader. (For more details, see "4. Temperature Measurement Restart Function.")

Tip

Temperature alarm detection in the 3 6 5 0 does not work while temperature measurement is stoppd.

≪What is a 3 6 5 0 Temperature Alarm≫

If an higher-limit temperature and a lower-limit temperature are preset at 3 6 5 0 startup, a high temperature alarm is generated if the measurement exceeds the higher-limit temperature setting or a lower thermal alarm is generated if the measurement falls below the lower-limit temperature setting.

Tip

Run the optional 3 9 2 0 (or 3 9 2 0 - 0 1) data reader and PC to ready the 3 6 5 0 for startup. For more details refer to the 3 9 2 0 (or 3 9 2 0 - 0 1) data reader user's guide and the software manual.

4

Operating Instruction 2

2. Temperature Alarm Detection Function

You can bring the data checker into contact with a 3 6 5 0 during temperature measurement to check for a temperature alarm instantly. There is no need to stop temperature measurement for the 3.6.5.0

[Operation]

When you bring the data checker reading slot into contact with the 3 6 5 0 , the READING lamp flashes, and a LED lamp lights (for 3 seconds) to indicate the detection result, with a beep tone. The LED lamps have the following meaning:

PASS lamp (green LED) : No temperature alarm has been detected during measurement.

FAIL lamp (red LED)

: A temperature alarm has been detected during

Tip

When performing thermal alarm detection for continuously, separate the data checker from the 3650 once for at least 1 second and then bring it contact into with the 3650 again.

measurement

3. Temperature Measurement Pause Function

You can stop temperature measurement in progress by bringing the data checker into contact with the 3650 to keep valuable data from being overwritten and prevent battery exhaustion.

[Operation]

After having checked for a temperature alarm, keep the data checker in contact with the 3650 for 5 seconds and the READING lamp will flash five times before the temperature measurement for the 3650 stops.

Operating Instruction 3

4. Temperature Measurement Restart Function

You can restart temperature measurement by bringing the data checker into contact with the 3650, without needing to use a data reader. The following tips should deserve special notice:

Tip

- The memory will be cleared at temperature measurement restart. (Save valuable data to the PC or other storage media before restarting temperature measurement.)
- _ Тір _) • Temperature alarms will be cleared at temperature measurement restart. (Save valuable data to the PC or other storage media before restarting temperature measurement.)

Tip

• The same set of temperature measurement conditions (measurement interval. memory overwrite, higher-limit and lower-limit temperature, etc.) as used in the last run of temperature measurement will be resumed at temperature measurement restart.

Tip)

• The temperature start date and time are set automatically (with the Residual Waiting time: 0 minute).

[Operation]

Keep the data checker in contact with the 3650 for <u>3 seconds</u> and the READING lamp will flash five times before the temperature measurement for the 3 6 5 0 restarts. The restart process completes if the PASS and FAIL lamp light (for about 2 seconds) with a beep tone.

Тір

When restarting temperature measurement after the temperature measurement stop, separate the data checker from the 3 6 5 0 once for at least 1 second and then bring it contact into with the 3 6 5 0 again.

Precautions for Use

7



Replacing the Battery

Load a battery.

- 1. Loosen the screw on the surface of the unit and open the top case.
- 2. Insert the battery (CR2032) into the battery loading position with the + side facing down.
- 3. Close the cases completely tight.



Tips)

Clearances in the contact of the cases can cause lead to dew condensation or failure. Be sure to close the cases completely tight. In loading the battery, observe the correct polarity to avoid failure. To avoid malfunctioning, replace the battery while the unit is fully dry. Take also notice of the additional precautions in battery handling to assure safety.

Safety Precautions in Handling Batteries

8

Lithium primary batteries contain inflammable substances, such as a lithium metal and an organic solvent. Improper handling can cause the batteries to heat, explode, ignite or otherwise misbehave, resulting in physical injury or fires. Be sure to abide by these precautions (warnings and cautions) to prevent these accidents.

Precautions for Use

∆Warnings				
Do not short or recharge the battery or force	Do not heat the battery, dispose of the			
ts discharge. In loading the battery, observe	battery in fire or solder it directly. If the			
he correct polarity. Contact between the	battery is heated to 100°C or higher or a			
olus and minus terminals of the battery or	connection is directly soldered to the			
with metallic parts can short the battery,	battery body (package), plastic materials,			
nducing such large current flow to heat the	such as the gasket and separator, will be			
pattery to the point of leakage, explosion and	impaired, causing the battery to leak, or			
iring. Recharging a lithium primary battery	internally short and then build up heat,			
or forcing its discharge can generate a gas	resulting in explosion or fire. The battery			
nside the battery, causing swelling, heating,	may blast or combust intensely if it is			
eakage, and fire.	disposed of in fire.			
Do not swallow the battery. Keep the	Do not use the battery for other than its			
battery out of reach of babies. In the	intended use. If the battery is used for			
event of swallowing, obtain medical	an unintended use, it may fire, explode			
care immediately.	or impair the equipment.			

Do not disassemble or deform the battery under pressure. If the battery is disassembled, a gas may be generated irritating the throat or the internal lithium battery may heat causing fire. If the battery is deformed under pressure or hit severely or otherwise impacted, the sealed part of the battery may be deformed, causing the battery to leak or short internally, resulting in swelling, heating, explosion or fire.

△Cautions		
Do not through the battery in water. Electrolytic corrosion may occur or a flammable gas may be generated.	Discontinue using the battery when it is found to swell, leak, heat or otherwise misbehave.	
Do not leave the battery in a place exposed to direct sunlight or rainwater. Store the battery in a dry place that is not exposed to direct sunlight, with little temperature change. The quality and useful life of the battery can be degraded if it is left in a high-temperature, high-humidity condition or wetted with rainwater or the like.	Read the user's guide or instructions carefully before using the battery. After reading, keep them in a safe place for ready reference.	

Maintenance



EMC: EN 55022:1998 class B EN 50082-1:1992

Supplementary Information:

The product herewith complies with the requirements of the EMC Directive 89/336/EEC, but is not applicable to the Low Voltage Directive 73/23/EEC.

13

HIOKI	E.E.	CORPORATION

8 September 2000					

lyuji Hichi Yuji Hioki

President

3650A999-00

Specifications

Product name	Data checker	
Model name	3921	
Ambient temperature range	-20°C to 50°C	
Ambient humidity range	Less than 85% relative humidity (No condensation is recognized.)	
Power source	Coin-type lithium battery CR2032 (Changeable)	
Number of measurement cycles	* Service life of the battery is about four years taking into consideration the natural discharging.	
Conformity	EN61326 1 : 1997, A1: 1998	
Dimensions	40 (H) x 57.5 (W) x 18.75 (D) mm (The slot for reading is excluded.)	
Weight	45 g	

12