

## Instruction Manual SX 50C

### THERMO-HYGROMETER



Thank you very much for buying a SAUTER Thermo-Hygrometer. We hope that you are pleased with your high quality instrument and its functional range.

These kinds of instruments are widely used in laboratory, warehouse, air conditioning systems, quality control etc.

Although this is a complex and delicate instrument, its ruggedness will allow many years of use if you will care for an appropriate operation and maintenance.

Please read the instruction manual carefully and always keep it within reach.

If there are any queries, wishes or helpful suggestions, do not hesitate to call our service number.

#### Table of contents

1. Functions
2. Operation
3. General Specifications
4. Description of parts
5. CE Declaration of Conformity

#### 1. Functions

- \* Large dual LCD Display
- \* Humidity and temperature measurement
- \* Humidity and temperature max. / min. measurement
- \* Data HOLD-Function: to freeze the currently measured value
- \*  $\text{C}/\text{F}$ -selection key
- \* Low battery indication
- \* Auto-Power-Off
- \* LCD backlight
- \* K-Type wire sensor for temperature measurement

#### 2. Operation

a) The battery cover has to be opened and a 9V battery has to be installed correctly. Then the ON/OFF button has to be pressed to turn the instrument on for measuring.

b)  $\text{C}/\text{F}$ -selection key: This key has to be pressed to select units between Celsius and Fahrenheit for temperature measurement.

c) Temperature MAX/ MIN- Function: Storage of max./ min. values. If the button T MAX/MIN is being pressed for the first time, the max. temperature value will be shown. If the button is being pressed a second time, the min. temperature value of a measuring process will be shown and it will be saved.

d) Humidity MAX/MIN- Function: If the button RH MAX/MIN is being pressed for the first time, the max. humidity value will be shown. If the button is being pressed a second time, the min. humidity value of a measuring process will be shown and it will be saved.

e) HOLD- Function: In normal measurement mode, the actual measured value can be frozen at any time by pressing the T HOLD-button. If this button is being pressed again, one returns to normal measurement mode. The same procedure is valid for humidity measurement: here the button RH HOLD has to be pressed.

f) K-Type temperature measurement with wire sensor: The instrument has to be connected with a wire sensor. Soon after, the K-Type temperature measurement mode will appear on the display. If the instrument is disconnected from the wire sensor, it will return to normal measurement mode.

g) LCD Display with backlight: If the button  $\text{C}/\text{F}$  is pressed longer than 2 seconds, the backlight function will be activated. If it is pressed again, backlight is turned off.

h) ON/OFF button: There will be an automatic shut-down after 10 minutes, as long as no button is being pressed or any operation is being done. The instrument can also be turned on or off manually at any time by pressing this button.

#### 3. General Specifications

Temperature Range: -10°C up to +50°C

K-Type wire sensor Temperature Range:  
-20° up to 1000°C

Relative Humidity Range: 5,0% up to 98% RH

Accuracy Temperature:  $\pm 2^\circ\text{C}$

K-TYPE:  $\pm 4^\circ\text{C}$

Accuracy Relative Humidity: 3,5% RH

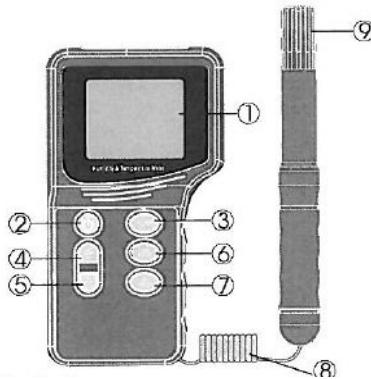
Resolution Temperature: 1°C

Resolution Relative Humidity: 0,1% RH

## Instruction Manual SX 50C

Sampling rate: 2.5 x times per second  
 Power supply: 1 x 9V battery  
 Operating conditions: -10°C up to +50°C  
 (32°F up to 122°F)  
 80% RH non-condensing  
 Storage conditions: -10°C up to +50°C (32°F up to 122°F)  
 0% RH up to 90%RH

#### 4. Description of parts



1. LCD Display
2. ON/OFF button
3. Temperature switch and LED backlight ON/OFF button
4. Temperature max / min measuring button
5. Humidity max / min measuring button
6. Temperature Data-HOLD Function key
7. Humidity Data-HOLD Function key
8. Connection leadwire
9. Humidity and Temperature sensor

#### 5. CE Declaration of Conformity



**SAUTER GmbH**  
 D-72336 Balingen  
 E-Mail: info@sauter.eu

Tel: 0049-[0]7433-9976-174  
 Fax: 0049-[0]7433-9976-285  
 Internet: www.sauter.eu

#### Konformitätserklärung

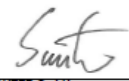
Declaration of conformity for apparatus with CE mark  
 Konformitätserklärung für Geräte mit CE-Zeichen  
 Déclaration de conformité pour appareils portant la marque CE  
 Declaración de conformidad para aparatos con marca CE  
 Dichiarazione di conformità per apparecchi contrassegnati con la marcatura CE

**English** We hereby declare that the product to which this declaration refers conforms to the following standards.  
**Deutsch** Wir erklären hiermit, dass das Produkt, auf das sich diese Erklärung bezieht, mit den nachstehenden Normen übereinstimmt.  
**Français** Nous déclarons avec cette responsabilité que le produit, auquel se rapporte la présente déclaration, est conforme aux normes citées ci-après.  
**Español** Manifiestamos en la presente que el producto al que se refiere esta declaración está de acuerdo con las normas siguientes.  
**Italiano** Dichiariamo con ciò che il prodotto al quale la presente dichiarazione si riferisce è conforme alle norme di seguito citate.

#### Thermo-Hygrometer: SAUTER SX 50C

Mark applied	EU Directives	Standards
<b>CE</b>	93/32/EEC	EN 55022 :1998+A1 :2000+A2 :2003 EN 55024 :1998+A1 :2001+A2 :2003 EN 61000-4-2/A2 2001 EN 61000-4-3 :2002

Date: 15.04.2011

Signature:   
 SAUTER GmbH  
 Management

SAUTER GmbH, Tieringer Str. 11-15, 72336 Balingen, Tel: +49 (0) 7433 9976 174, Fax: +49 (0) 7433 9976 285