



TIME-20

Process Control Stopwatch

Users Manual

- Mode d'emploi
- Bedienungshandbuch
- Manual d'Uso
- Manual de uso



TIME-20

Process Control Stopwatch

Users Manual

English

July 2009, Rev.1
©2009 Amprobe Test Tools.
All rights reserved. Printed in China

Limited Warranty and Limitation of Liability

Your Amprobe product will be free from defects in material and workmanship for 1 year from the date of purchase. This warranty does not cover fuses, disposable batteries or damage from accident, neglect, misuse, alteration, contamination, or abnormal conditions of operation or handling. Resellers are not authorized to extend any other warranty on Amprobe's behalf. To obtain service during the warranty period, return the product with proof of purchase to an authorized Amprobe Test Tools Service Center or to an Amprobe dealer or distributor. See Repair Section for details. THIS WARRANTY IS YOUR ONLY REMEDY. ALL OTHER WARRANTIES - WHETHER EXPRESS, IMPLIED OR STATUTORY - INCLUDING IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY, ARE HEREBY DISCLAIMED. MANUFACTURER SHALL NOT BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LOSSES, ARISING FROM ANY CAUSE OR THEORY. Since some states or countries do not allow the exclusion or limitation of an implied warranty or of incidental or consequential damages, this limitation of liability may not apply to you.

Repair

All test tools returned for warranty or non-warranty repair or for calibration should be accompanied by the following: your name, company's name, address, telephone number, and proof of purchase. Additionally, please include a brief description of the problem or the service requested and include the test leads with the meter. Non-warranty repair or replacement charges should be remitted in the form of a check, a money order, credit card with expiration date, or a purchase order made payable to Amprobe® Test Tools.

In-Warranty Repairs and Replacement – All Countries

Please read the warranty statement and check your battery before requesting repair. During the warranty period any defective test tool can be returned to your Amprobe® Test Tools distributor for an exchange for the same or like product. Please check the "Where to Buy" section on www.amprobe.com for a list of distributors near you. Additionally, in the United States and Canada In-Warranty repair and replacement units can also be sent to a Amprobe® Test Tools Service Center (see address below).

Non-Warranty Repairs and Replacement – US and Canada

Non-warranty repairs in the United States and Canada should be sent to a Amprobe® Test Tools Service Center. Call Amprobe® Test Tools or inquire at your point of purchase for current repair and replacement rates.

In USA

Amprobe Test Tools
Everett, WA 98203
Tel: 877-AMPROBE (267-7623)

In Canada

Amprobe Test Tools
Mississauga, ON L4Z 1X9
Tel: 905-890-7600

Non-Warranty Repairs and Replacement – Europe

European non-warranty units can be replaced by your Amprobe® Test Tools distributor for a nominal charge. Please check the "Where to Buy" section on www.amprobe.com for a list of distributors near you.

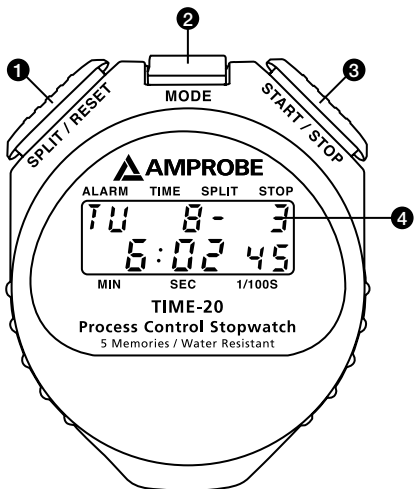
European Correspondence Address*

Amprobe® Test Tools Europe
In den Engematten 14
79286 Glottertal, Germany
Tel.: +49 (0) 7684 8009 - 0

*(Correspondence only – no repair or replacement available from this address. European customers please contact your distributor.)

TIME-20

Process Control Stopwatch







- ① Split / Reset Button
- ② Mode Button
- ③ Start / Stop Button
- ④ Display Screen (LCD)

CONTENTS

SYMBOLS	2
UNPACKING AND INSPECTION	2
INTRODUCTION	2
OPERATION	3
SPECIFICATIONS.....	5
MAINTENANCE AND REPAIR	6

SYMBOLS

	Caution! Refer to the explanation in this Manual
	Conforms to relevant Australian standards
	Complies with European Directives
	Do not dispose of this stopwatch as unsorted municipal waste. Contact a qualified recycler for disposal.

WARNING and PRECAUTIONS

- *Do not operate the stopwatch in explosive gas (material), combustible gas (material) steam or filled with dust.*

UNPACKING AND INSPECTION

Your shipping carton should include:

- 1 TIME-20 Process control stopwatch
- 1 Battery (Installed)
- 1 Users manual

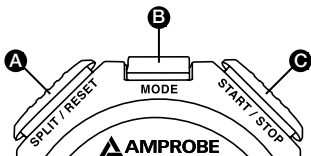
If any of the items are damaged or missing, return the complete package to the place of purchase for an exchange.

INTRODUCTION

Optimize process phases by analyzing and precisely timing each task. When improving process flow, verify improvement times and cost savings on production floors or assembly lines with precise stopwatches.

- Chronograph: 1/100 stop watch, split/lap time
- Count-down timer
- 5-lap time with timer
- Dual time LCD
- Time display: hour, minute, second, day, week day, month and year
- Alarm function
- Hourly chime
- Water resistant

OPERATION



NORMAL TIME MODE (SELECT MODE FROM B)

Sequence	Sec / Hr / Min / 12-24hr Mode / Mode / Month / Date / Week Days
----------	---

- Press and hold A, press C to advance
- Press B to select setting
- Press A to final confirm all settings

ALARM TIME MODE (SELECT MODE FROM B)	
Sequence	Hr / Min
<ul style="list-style-type: none"> • Press and hold A, press C to advance • Press B to select setting • Press A to final confirm all settings 	
DT (DUAL TIME) MODE (SELECT MODE FROM B)	
Sequence	Hr / Min
<ul style="list-style-type: none"> • Press and hold A, press C to advance • Press B to select setting • Press A to final confirm all settings 	
TR (COUNTDOWN) MODE (SELECT MODE FROM B)	
Sequence	Sec / Hr / Min
<ul style="list-style-type: none"> • Press and hold A, press C to advance • Press B to select setting • Press A to final confirm all settings • Press C to start/stop and repeat counting, or press A to restart counting, and hold for resetting 	
CHRONOGRAPH STOP WATCH MODE (SELECT MODE FROM B)	
Sequence	For Counting: 1/100 Sec / Sec / Min
<ul style="list-style-type: none"> • Press C to start/stop, or press A to split, up to 5 laps • (In split function, press C to start, then press A for 1st, 2nd and 3rd, 4th laps, and the last 5th lap must press C to stop for recording, or it will delete the 1st lap to record the latest 5 laps) • Press and hold A to clear or reset • Press B back to normal time mode 	

ALARM / DISARM THE HORLY CHIME / THE ALARM SIGN

Press B to select the alarm mode. Press C to alarm the signs.

Sequence	(((.)))	→	δ	→	(((.)))δ	→	DISARM
	ALARM SIGN		HOURLY CHIME		BOTH SIGNS		

SPECIFICATIONS

Normal Time : Days, Month, Date, Hour, Minute, Second, AM/PM, 12/24 Hours, Alarm Sign Hourly Chime

Alarm Time : Hour, Minute, Alarm Sign Hourly Chime

Dual Time : Hour, Minute, Second

Count-down Timer : Hour, Minute, Second

Min Count : 1 Sec

Max Count : 23:50:59 (Hour : Minute : Second)

Chronograph : 1/100 Stop watch

Max Lap : 5

Recall : Last 4

Max Count : 50:59 (Minute : Second) (99/100Sec)

Water Resistant : Yes

Dimensions : 65(L) x 56(W) mm (2.56 x 2.20 in)

Weight : Approx. 47 g (0.10 lb)

Battery : LR44

MAINTENANCE AND REPAIR

If there appears to be a malfunction during the operation of the stopwatch, the following steps should be performed in order to isolate the cause of the problem.

1. When readout becomes dim or no displays, it is time to replace the battery, remove the back cover by loosening the screw and replace with Toshiba LR44.
2. Review the operating instructions for possible mistakes in operating procedure.

Except for the replacement of the battery, repair of the meter should be performed only by a Factory Authorized Service Center or by other qualified instrument service personnel. The front panel and case can be cleaned with a mild solution of detergent and water. Apply sparingly with a soft cloth and allow to dry completely before using. Do not use aromatic hydrocarbons or chlorinated solvents for cleaning.

Visit www.Amprobe.com for

- Catalog
- Application notes
- Product specifications
- User manuals



Please Recycle