





INSTALLATION USE AND MAINTENANCE

LCD shadowed	The instrument has been used too long with the flashing message "bAtt" (see chap. 8 of the user Manual)		
LCD black	The batteries are completely flat.		
Impossible to enter the AUTO mode	If the display is flashing the message "bAtt", the dispensing in AUTO mode is inaccessible for safety reason (see par. 8.1 of the User manual)		
In AUTO mode, the trigger doesn't	There is a problem on the trigger locking system		
remain in open position			
The trigger	The used fluid is not compatible		
uoesii tielease	The valve doesn't work		
Leaking from the	Improper seal of the valve nozzle		
drip-free shutoff valve	The drip-free shutoff valve doesn't close correctly		
Leaking from the trigger	The seals have been damaged		
Leaking from the	Improper hose installation		
swivel	Not compatible threads		
Leaking from the extension	The installation of the extension on the nozzle has not been made correctly		
The extension blew off from the nozzle	The installation has not been made correctly		
	Possible short circuit due to some water trapped into the battery compartment		
High wearing out of the batteries	Possible short circuit due to humidity into the battery compartment		
	Battery installation and contacts not correct		
Eailing to start	Defective contact at the battery		
after battery replacement	installation.		
DATA ERROR on the display	Defective board		

DISPOSAL 11

Foreword	In case the system should be den
	particular:
Disposal of Pack-	Packaging consists of biodegrada
aging	firms charged with cellulose recov
Disposal of Metal	The metal components, both p
parts	usually recycled by companies
	scrapping industry.
Disposal of electri-	These have to be disposed by
cal and electronic	the disposal of electronic com
components	instructions of 2012/19/UE (see te
Environ-	European Directive 2012/19/UE
🗙 mental	bearing this symbol on the prod
🖊 📥 informa-	be disposed of with unsorted mur
tion for	that this product should be dis
customers	this and other electric and electric
in the European	collection facilities appointed by
Comunity	conection facilities appointed by t
	Disposing of RAEE equipment
	forbidden. Such wastes must be

as household wastes is strictly disposed of separately. Any hazardous substances in the electrical and electronic appliances and/or the misuse of such appliances can have potentially serious consequences for the environment and human health. In case of the unlawful disposal of said wastes, fines will be applicable as defined by the laws in force. Disposal of Other parts The disposal of other parts such as pipes, rubber seals, plastic components and cables should be entrusted to companies specialized in the disposal of industrial wastes.

+/- 0.2 % of indicated value

Repeatability

Reduced flow rate	Insufficient pump pressure	dirty particles (see par. 5. user manual). Use a pump able to creat
	High oil viscosity	pressure If possible, keep the oil wa order to reduce viscosity.
Lack of accuracy (within few	Necessity to calibrate TIM- 900 into the specific operative condition	Calibrate the instrument f the instruction at par. 7.7 User manual.
percentage error)	The feeding line has not been purged from the air	Purge the lines (see par. 5 user manual).
Evident inaccuracy	Counting system malfunctioning	Contact your dealer for re
TIM-900 doesn't count	Counting system malfunctioning	Contact your dealer for re

ROUBLESHOOTING			
POSSIBLE CAUSE	CORRECTIVE ACTION		
filter	Clean the filter after hav properly flushed the feeding lir from dirty particles (see par. 5.3 of t user manual).		
ficient pump pressure	Use a pump able to create high pressure		
oil viscosity	If possible, keep the oil warmer		

EN BULLETIN MOO95C EN_01

Replace the battery.

Replace the battery. Replace the battery.

Contact your dealer for repair

Use the instrument with compatible fluids. Contact your dealer for repair. Once dismantled the extension check the tightness of the valve nozzle. If negative, contact your

dealer for repair. Once dismantled the extension, check the tightness of the valve nozzle. If positive, replace the drip-free shutoff valve. Contact your dealer for repair

Verify the proper installation of the hose. Verify that the hose and the inlet swivel threads are the same. Verify the presence of all Verify the presence components and nut tightening (see par. 5.5 of the user manual). Verify that the spring washer has been installed and check the nut tightening (see par. 5.5 of the user manual). Avoid to sprinkle water against the

The instrument has been designed to be used indoor. Do not use outdoor. Verify that there is not any short circuit on the battery contacts. Contact your dealer for repair.

nnect the batteries and wait for 30 seconds.

Replace the board.

nolished, its parts must be given to ial waste disposal and recycling; in ble cardboard that can be given to ainted and in stainless steel, are that are specialised in the metal-

companies that are specialised in ents, in accordance with the ext of Directive below).

requires that the equipement uct and/or its packaging must not nicipal waste. The symbol indicates posed of separately from regular your responsibility to dispose of tronic equipment via designated the government or local authorities.

ENGLISH (Translation of the original language)

INDEX

CE DECLARATION OF CONFORMITY GENERAL PRECAUTIONS SAFETY WARNINGS GETTING TO KNOW TIM-900 DETAILED INFORMATION ON TIM-900 MANUAL AND AUTO OPERATION INSTALLING TIM-900 SYSTEM REQUIREMENTS LINE PRESSURE RELIEF FLUSHING THE LINES 5.3 PRELIMINARY CHECKS ON TIM-900 MOUNTING THE EXTENSION ON TIM-900 5.5 ASSEMBLING TIM-900 AIR PURGING FROM THE LINES CHECKING THE FLOW-RATE USING TIM-900 DISPENSING IN MANUAL MODE DISPENSING IN AUTO MODE CUSTOMIZING TIM-900 CUSTOMIZING MENU FREQUENTLY USED PRESET VALUES UNIT OF MEASUREMENT DECIMAL DIGITS AUTO RESET STOP PRECISION IN AUTO MODE CALIBRATION MAINTENANCE OF TIM-900 BATTERY REPLACEMENT FILTER CLEANING PRODUCT IDENTIFICATION CONSTRUCTION DATA TECHNICAL DATA DIMENSIONS SPARE PARTS EXPLODED VIEW 10.3

TROUBLESHOOTING 10.4 DISPOSAL

CE DECLARATION OF CONFORMITY

American Lubrication Equipment Corporation 1212A McCormick Road PO Box 1350 Hunt Valley, MD 21030-1350 U.S.A.

Hereby states

The undersigned:

under its own responsibility, that the equipment described below ion: Dispensing nozzle for oil. Model: TIM-900

Serial number: refer to Lot Number shown on CE plate affixed to product Year of manufacture: refer to the year of production shown on the CE plate affixed to the product is in conformity with the legal provisions indicated in the directives :

- Electromagnetic Compatibility Directive 2014/30/EU The documentation is at the disposal of the competent authority following motivated request at American Lubrication Equipment Corporation or following request sent to the e-mail address: service@americanlube.com.

The person authorised to compile the technical file and draw up the declaration is Mr. Eben Eck as legal representative

Hunt Valley, MD 21030-1350, 20/04/2016

Mr. Eben Eck The legal representative

FIRE AND EX-

fluids are present

in the work area

flammable fumes

explode while the

be aware that

station is oper-

EQUIPMENT

cause death or

serious injury

TOXIC FLUID

OR FUMES

HAZARD

MISUSE

can ignite or

ating.

When flammable

t

<u>
</u>

A. An ergonomic handle.

against accidental starts.

dispensing in confined spaces.

4.1

126

Filter

The trigger

The liquid-crystal display "LCD"

C.

Ε.

The handle

PLOSION

GENERAL PRECAUTIONS		
nportant arnings		In order to protect workers' safety, to avoid damaging and before performing any operation, please read and familiarize with the whole instruction manual.
ymbols used the manual	\triangle	In order to signal particularly important instructions or warnings, the following symbols are used: This symbol highlights important aspects as to SAFETY .
	0	This symbol highlights important aspects as to the $\ensuremath{\textbf{CORRECT}}$ $\ensuremath{\textbf{USE}}$ of TIM-900.
		This symbol highlights important aspects as to avoid POLLUTION HAZARDS .
		The instructions provided by this manual satisfy both the Installer's and the Users' requirements (Manager and Operators) of TIM-900. In the Table of Contents a symbol alongside each paragraph
perator	and and	Indicates the person this information is intended for. All paragraphs marked with this symbol concern the Operator. The operator is the person who uses TIM-900 to carry out dispensing operations. Therefore the Operator is not expected to read paragraphs other than those marked with this symbol.
anager		All paragraphs marked with this symbol concern the Manager. TIM-900 offers several options (selection of the unit of measurement, selection of the Number of Decimal Digits, Calibration, etc.). At least one skilled Operator (hereinafter referred to as the Manager) must know this data in order to allow the Operators to use TIM-900 correctly. The Manager must read thoroughly all paragraphs concerning the Manager and the Operator.
staller	Ç	All paragraphs marked with this symbol concern the Installer only. He is responsible for installing TIM-900 and is required to read the manual thoroughly, no paragraph omitted.
anual storage		This manual must be intact and completely readable. The final users, as well as the qualified technicians authorised to installation and maintenance must be able to view it at any time.
eproduction ghts		Piusi S.p.A. is the exclusive owner of all rights envisaged by applicable laws, including the rules concerning copyrights. All rights arising from these standards are reserved to Piusi S.p.A.: even partial reproduction of this manual, its publication, edit, transcription, communication to the public, distribution, marketing in any form, translation and/or processing, lending, and any other activities are reserved by law to Piusi S.p.A
		This manual is and essential and integral part of the product and must be handed over to the personnel who carries out the installation, uses and maintains TIM-900. Read all indications given in this manual as they provide important instructions as to safe installation, use and maintenance. Keep this manual safe for future reference. Do not remove, tear or modify any part of this manual for any whatsoever reason. In case of loss or damage, a new copy can be requested to the manufacturer, provided the relevant code is indicated. The manufacturer is not liable for any damage to persons, things
	(!)	or the unit itself, if the latter is installed or used incorrectly.
3.1	S	AFETY WARNINGS

and the fluid that needs to be pumped.

Mains -

preliminary checks before

installation

Control and

maintenance

operations

Before any checks or maintenance work are carried out. disconnect the power source.





2. Totals (7 digits).

3. Indication of the Total type (TOTAL / Resettable TOTAL)

indications

INSTALLING TIM-900 This paragraph describes the necessary operations to be carried out when TIM-900 is installed for the first time on a new system or to replace an existing nozzle with TIM-900

automatic operation as the trigger can still be locked in open

TIM-900 automatically exits the AUTO mode after a given

period of time (TIME OUT) without dispensing.



(🛲 `

Shut-off valve.

5.2

Flexible hose.

Nozzle.

5.4















TIM-900 can be programmed to display the last amount dispensed until the RESET button is pressed or to automatically reset the Batch Total a few minutes after a dispensing operation in MANUAL mode (see "Auto RESET" at paragraph 7.5). If the last dispensing operation has been carried out in AUTO mode, the dispensed amount is never reset, independently from the selection of the Auto RESET.

©American Lubrication Equipment Corporation

Blinking

To display the other stored values, press AUTO as many times as

necessary to reach the desired value.

The blinking message will be:



Selected value

The trigger thus remains locked in open position. Now dispensing

The dispensing operation can be resumed in AUTO mode within a given time (TIME OUT) from the stop. Within this TIME OUT TIM-900 still allows the locking of the trigger in Once expired this TIME OUT, TIM-900 still allows the user to continue the dispensing but only in MANUAL mode.

The supply automatically stops when the preset value is reached.



Manual resumption of the dispensing (TOPPING UP): Once dispensing has been carried out in AUTO mode, TIM-

The dispensed amount is added to the previous one in AUTO mode. The **PRESET value** previously set, displayed in the Total, starts blinking to indicate that the preset value has been



