User Manual UPI-ST interface

Used for Still industrial trucks

(Last updated in (01/2013))

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01/10/2012	Initial release	A
09/01/2013	Minor update	B

Table of Contents

1   Introduction

1.1   Use

The UPI-ST Interface and the UPC-100 Handset enable the user to amend the factory settings of certain Still industrial trucks.

The UPI-ST Interface must be used together with the UPC-100 Handset. Any other use is not authorized.

Remark; Drawings and images in this UPI-ST Interface manual may differ from your model.

1.2   Warnings

Amending factory settings of an industrial truck can cause material and physical injury. Therefore, the UPI-ST Interface and the UPC-100 Handset must only be used by skilled, trained and authorized staff.

The users of the UPI-ST Interface must have access to the user manual at all times.

Read this UPI-ST Interface manual carefully before connecting, maintaining or using the UPI-ST Interface. Strictly follow the safety instructions in the truck manufacturer's maintenance manual prior to connecting the UPC-100 Handset and the UPI-ST Interface to the truck.

Warning: Failure to comply with the instructions and warnings in this manual could result in serious injury to the user or other persons in the vicinity of the truck.

1.3   Contents and first use

The package contains the UPI-ST Interface, the UPA-ST-RX cable and the UPA-ST-CAN cable.

2   Supported trucks

The UPI-ST Interface fully or partially supports trucks of the types listed below.

Warning: The UPI-ST Interface does not fully support all truck configurations, in particular less common configurations. The UPI-ST Interface is under constant scrutiny, development and improvement and feedback of user experiences is extremely valuable. In case of doubt or concern, please contact UMS.

Name	Serial
R20	2008, 2010, 2013, 2009, 2011, 2012, 2014, 2016, 2017, 2018, 2020, 2023, 2019, 2021, 2024, 2022, 2037, 2038, 2039, 2041, 2044, 2042
R60S20	6022, 6023, 6024, 6025, 6026, 6027, 6028, 6029, 6030, 6031, 6032, 6042, 6043, 6044, 6045, 6046, 6047, 6048, 6049, 6050, 6051, 6052, 6053
R60S60	6022, 6023, 6024, 6025
R60i(1,6t-2t)	6033, 6034, 6035
R60i(2t-3t)	6036, 6037, 6038, 6039
R70	7048, 7049, 7050, 7052, 7053, 7054, 7055, 7056, 7062, 7063, 7064, 7065, 7069, 7070, 7074, 7075, 7076, 7077, 7078, 7079, 7084, 7085, 7086
R70i	7065, 7066, 7067
R70 71-73 81-83	7071,7072,7073,7081,7082,7083
RX20-RX60	6311,6313,6315,6210,6211,6212,6213,6214,6215,6216,6217,6327,6328,6329
RX50	5051,5052,5053,5054,5055
RX70	7321,7322,7323,7324,7325,7326,7327,7328

3   Locating the service connector on the truck

The service connector is usually located at the bottom of the truck console display (when the driver is seated, it is located at his left-hand side).

4   Starting up the handset

Carefully read the installation instructions in the UPC-100 Handset User Manual, before starting up the UPC-100 Handset.
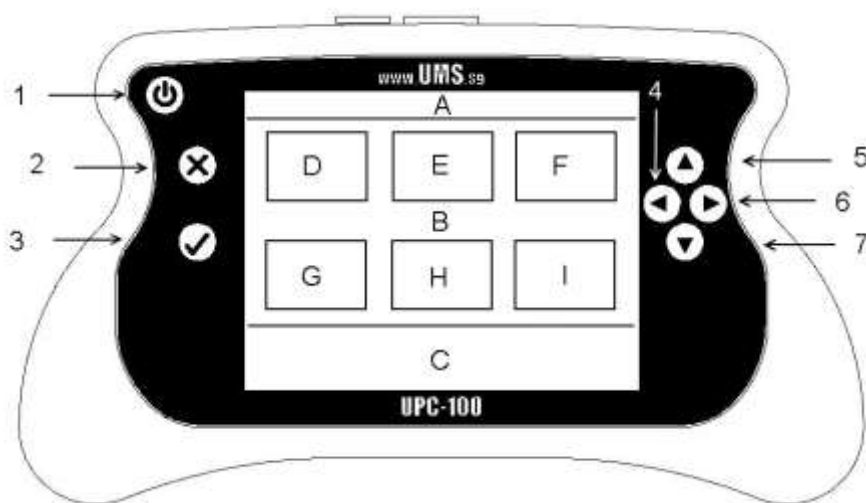
Upon start-up, the UPC-100 Handset asks you to select the truck type on which you wish to perform your diagnostics and/or parameterization. Select the correct truck using the up/down arrows, and confirm by pressing the OK button.

Once you confirmed your selection, the CAN communication is initialized. The status is displayed in zone C (see "menu structure") of the display.

After initialization, the UPC-100 Handset will expect you to confirm that all safety precautions described in the truck manufacturer's instructions have been taken (blocking up, jacking up, etc.). Press OK only if this is the case.

5   Structure of the display

Navigate the display by using the arrow keys (4,5,6,7). Select an item by pressing the OK key (3). Use the ESC key (2) to return to the previous screen.

5.1   Diagnostics (Zone D)

The diagnostics menu is used to read out the present value of a certain sensor/actuator (e.g. switch status, motor current). Values are read only, they cannot be changed. Highlight a value to refresh it. This menu is divided in 3 submenu's: Drive, Hydraulic and Misc.

5.2   Parameters (zone G)

In this menu, users can read out as well as manipulate parameters that influence the behaviour of the truck.

Warning: wrongful manipulation of the parameters can result in uncontrolled behaveiour of the truck, possibly causing severe injury or death

The parameter list depends on the selected truck.

5.2.1 Drive parameters

This submenu contains all parameters affecting the driving behaviour of the truck. Amongst these are maximum drive speeds, number of drive programs.

5.2.2 Logic parameters

In this submenu, users can change parameters of the logic functions: AND, OR, XOR.

5.2.3 Indication parameters

This list contains settings for lighting, truck console display, flashers,

5.2.4 Misc parameters

This submenu contains all other parameters.

5.2.5 System parameters

Users can perform following actions:

- Change service hours: make sure the truck is sufficiently serviced when changing these service hours. Insufficient service can cause damage to the truck.
- Reset error list: clear all errors stored in the truck memory
- Reset device: Restart the controllers of the truck.
- Set service address: if a certain parameter cannot be changed using the implemented parameter lists, a user can set the corresponding service address to the correct value.

5.2.6 Store/load parameter sets

Store all truck parameters on the UPI-ST, or restore a previously stored set to the truck.

5.3 Errors (zone H)

5.3.1 Show error list

View a list of the last (maximum 8) errors that occurred on the truck. By pressing OK, the user can see detailed error information.

5.3.2 Error information

A list is available with all errors that can be recognised by the UPI-ST Handset with respect to the selected truck. Select the correct error number and press OK to view error information. This list is truck dependent.

5.4 Handset (Zone I)

(See UPC-100 Handset Manual)

5.5 Information field (Zone C)

Zone C displays the two most recent errors or warnings supported by the UPI-ST Interface.

6 Cleaning the UPI-ST Interface

Only use a damp cloth to clean the housing and the cable. Do not use any solvents or liquid.

7 Maintenance

There are no user serviceable parts present in the UPI-ST Interface. Upon defect, the unit must be returned to UMS for repair. If the UPI-ST Interface is damaged, return it to UMS.

Any attempt to unscrew, alter, repair or interfere otherwise with the UPI-ST Interface, will invalidate any warranty.

8 Storage

The unit must be stored in a dry, frost-free room.

9 Problem solving

Problem	Solution
I only see the 'handset' icon in the main menu.	Make sure the cable towards the truck is connected to the interface
The display shows "can't locate the interface"	Make sure the cable towards the UPC-100 Handset is connected.

If your problem is not listed, try the FAQ section on www.ums.sg.

10 Transport

When transporting the UPI-ST Interface, make sure it is not connected to the UPC-100 Handset. The cables towards the truck must also be disconnected to prevent damage.

11 Regulatory compliance

This UPI-ST Interface complies with the Electromagnetic Compatibility Directive 2004/108/EC, in particular with the harmonized standards listed below:

- Emission: EN 55022 (2006) + A1 (2007), class B
- Immunity: EN 55024 (1998) + A1 (2001) + A2 (2003)
- Emission: EN 61000-3-2 (2006)
- Emission: EN 61000-3-3 (1995) + A1 (2001) + A2 (2005)

12 Warranty

UMS warrants the UPI-ST Interface for a period of six (6) months from the date of purchase. The warranty is strictly limited to the replacement or the repair of the UPI-ST Interface, or parts thereof, showing a manufacturing defect according to the final judgment of UMS.

UMS shall never accept a warranty claim if the user has carried out repairs or modifications to the UPI-ST Interface; or if the defect results from assembly, maintenance, storage or use in a manner which is inconsistent with the indications and recommendations by UMS, or from use for purposes other than those described in the User Manual, abnormal use, overloading, or normal wear; or if the original UMS identification, label or serial number has been removed; or if the warranty period has lapsed.

The warranty excludes all costs for transportation.

Warranty claims are administered through Universal Machine Solution Pte. Ltd.. Company registration number 201201400E.

Contact: www.ums.sg