Oracle® MICROS Hardware

Mettler Toledo Ariva-S Mini Scale
Setup Guide

August 2017

ORACLE

Contents

Preface

The Ariva-S Mini standalone checkout scale is the Mettler Toledo checkout solution for retailers and POS systems.

Audience

This document is intended for companies and individuals installing the Ariva-S Mini scale for use with Oracle Hospitality systems.

Customer Support

To contact Oracle Customer Support, access My Oracle Support at the following URL:

https://support.oracle.com

When contacting Customer Support, please provide the following:

- Product version and program/module name
- Functional and technical description of the problem (include business impact)
- Detailed step-by-step instructions to re-create
- Exact error message received and any associated log files
- Screenshots of each step you take

Documentation

Oracle Hospitality product documentation is available on the Oracle Help Center at http://docs.oracle.com/en/industries/hospitality/

Revision History

Date	Description of Change
August 2017	• Initial publication

1 Overview

The Ariva-S Mini standalone checkout scale (material no. 30288641) is the Mettler Toledo checkout solution for retailers and POS systems. This is the same scale as the Ariva-S but with a much smaller platter footprint. It comes with a 12V power adapter and a serial interface cable (Mettler P/N 72256235).

Technical Specifications

Table 1 – Weighing Ranges

Capacity	Single Interval	Dual Interval
240 oz	240 x 0.1 oz	N/A

Table 2 – Range of Services

Service	Description
Interfaces	RS-232 DB9F for connecting to POS system.
Temperature Range	14°F – 104°F (-10°C – +40°C) 0-85% humidity, non-condensing
Power Supply	External 100-240 V AC / 12 VDC / 840 mA power supply
Display	Single display, with base and tower mount options: • Bright, backlit display with energy-saving function • 5-digit weight display • Keys for taring and zeroing
Dimensions	Standard weighing platform: 6.3” x 7.875” (160 mm x 200 mm) Minimum height: 1.75” (mm) Height adjustment and leveling with adjustable feet
Approvals	OIML, NTEP, CE, NSF, UL

2 Communication Protocol Setting

For Oracle Hospitality POS application software, the scale protocol selection must be set to NCI Weightronix (Group 3.6, option 2). The scale is configurable for specific needs by changing soft switches directly from the keyboard. To enter User Mode, press and hold **T** key for eight seconds until "CONF" is displayed. To access the various prompts, use the following keys during the scale setup mode.

Note that only a limited number of parameters can be configured in User mode.

Zero button is used to confirm a choice and then go to the next step.

Tare button is used to step through the set up groups. Once a group is selected, this key is used to select the specific soft switch settings.

3 Scale Setup Groups

The following table is for reference when going through the various scale setup parameters. The one highlighted option is all you need to verify/set to make the scale operational.

Table 3 – Scale Settings

* Factory Default

Group 1		**Press Zero to Enter Group 1** **Press Tare to go to Group 2**	
Group.Step		**Function**	**Possible Selections**
1.10		Language (only use with text display.)	*0 - English.
Group 2 **Group.Step**		**Function**	**Press Zero to Enter Group 2** **Press Tare to go to Group 3** **Possible Selections**
2.3		Expanded Weight Display	**ON** – Weight is displayed in high resolution (ten times normal resolution). ***OFF** – Weight is displayed in normal display increments. ***Notes**:* 1. *No weighing transactions can occur in this mode.* 2. POS protocols are not operational *in this mode*. **3.** *Press >T< key to exit Expanded Weight Mode.*
Group 3			**Press Zero to Enter Group 3** **Press Tare to go to Group 4**
3.1		Communication Type	***0** – RS-232 1 – USB Virtual COM ports (USB Ser/CDC) 2 – USB MTSerial HID (USB Ser/HID) 3 – USB HID POS 4 – USB IBM OEM HID
	3.2	Baud rate	0 – 1200 1 – 2400 2 – 4800 ***3** – 9600 4 – 19,200 5 – 38,400 6 – 57,600

			7 – 115,200
	3.3	Parity	0 – None ***1** – Even 2 – Odd
	3.4	Data bits	***0** – 7 data bit **1** – 8 data bit
	3.5	Stop bits	0 – None ***1** – 1 stop bit 2 – 2 stop bit
Only if 3.1 = 0, 1 or 2.	3.6	Protocol Selection	0 = Disabled 1 = Reserved 2 = NCI Weightronix (WO/PC) ***3** = 8217 Mettler-Toledo (WO) 4 = 8213 Mettler-Toledo (WO) 5 = EPOS 1 (WO) 6 = EPOS 2 (WO) 7 = SL4700/ TEC MA 8 = Dialog 06 (PC) 9 = Dialog 04/02 (PC) 10 = Extended Dialog 06 (PC) 11 = ICL (WO) 12 = Shekel (WO) 13 = RIVA 5462/Nixdorf 2(WO) 14 = IP3 (PC) 15 = Reserved 16 = Reserved 17 = MT L2 18 = Berkel WO 19 = Berkel PC 20 = Anker 21 = CAS (WO) 22 = Epelsa
Only if 3.6 = 1	3.7	Protocol Option	0 – 4 byte 1 – 2 byte ***Note:** Only available on certain Ariva models when 3.6 = 1.*
	3.8	Force customer display present	0x30 = None 0x31 = Display Required (status only.) 0x32 = Display Required (suppress sending weight) ***Note:** Only available on certain Ariva models when 3.6 = 1.*
Group 4			**Press Zero to Enter group 4** **Press Tare to go to Group 5**
4.1		Button Tare Enable	***ON** – Enables tare button function. OFF – Disables tare button function.

		Note: *This function only applies to push button tares (it does not apply to preset tares.)*
4.2	Chain Tare Enable	ON – Enables multiple tares. ***OFF** – Only one tare per transaction is allowed.
4.3	Auto-clear of Button Tare	***ON** – Tare is automatically cleared when weight is removed. OFF – Tare is not cleared when weight is removed. ***Note:*** *This function only applies to push button tares (it does not apply to preset tares.)*
4.4	PreSet Tares Require Stable Weight	ON – Preset tares require stable weight (Argentina) ***OFF** – Preset tares do not require stable weight (rest of world) ***Note:*** *Only Argentina requires this item to be set = ON.*
Group 5 **Group.Step**	**Function**	**Press Zero to Enter Group 5** **Press Tare to go to Group 6** **Possible Selections**
5.1	Beeper	0 **–** No beeper.* ***1** – Scale beeps only when Keypad is pressed. 2 – Scale beeps only when data is sent to POS. 3 – Scale beeps with both POS data and keypad press. ***Note:** The calibration button always beeps.*
5.2	Blank Weight Enable	ON – Only display stable weight. **-** Display will be blank during weight settling time. ***OFF** – Display weight all the time (even if unstable.) ***Note:*** *When disabled (OFF) the weight settling time will appear to be faster because the final weight will be displayed before it has been determined to be stable.*
5.3	Zero cursor	***ON** – Enable (display) zero cursor. OFF – Disable zero cursor. ***Note:*** *when the scale is at Center-of-Zero the ZERO display cursor will be illuminated, depending upon this option.*
5.4	Display Type	0 – None ***1** – 1 Line 2 – 4 Line

		3 – Text Display ***Note:*** *If an auto-detected display is used then the detected display type will over-ride the menu setting.*
Group 6		**Press Zero to Enter Group 6** **Press Tare to go to EXIT**
EXIT		**Press Zero to Enter** **Press Tare to go to Group 1**
SAVE	Save or abort setting	**SAVE** – save all settings and reboot. **ABORT** – abort all settings and return to weighing mode.

* Used only on the 4 Line display
PC – Price Computing; **WO** – Weight Only

4 Supported Applications and Compatibility

Mettler Toledo serial scales have been supported since the initial release of all the Food and Beverage applications. Certificates of Conformance can be obtained from the National Conference on Weights and Standards website. For a complete list of active certificates that list the minimum versions certified, see www.ncwm.net/ntep/cert_search, enter Oracle America in the Manufacturer field, and then click Search. Using the WS5a and PCWS2015 as the earliest active H/W model, the following Oracle Hospitality POS application versions (or greater) are supported:

- Simphony 2.4.2
- Simphony FE 1.4.5
- RES 4.7.2
- e7 3.0.0300