



**TECHNICAL
ADVANTAGES**

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RS232 Interface

Instruction Manual

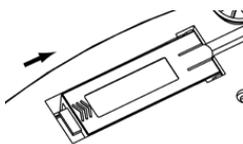
INTRODUCTION

This Interface Kit is for use with the following Ohaus products: Scout Pro, Traveler and Navigator.

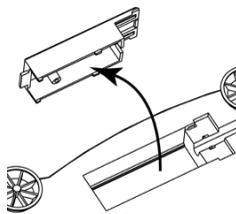
INTERFACE INSTALLATION

Install the Interface module on the underside of the balance as shown.

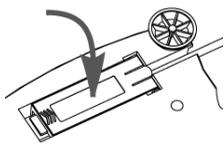
Note: The appearance of your model may be different.



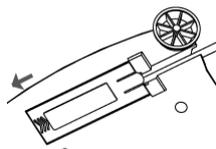
1. Slide Blank Cover to rear.



2. Remove the Blank Cover.



3. Install Interface Module.



4. Slide Module forward.

SETUP

- A) The Ohaus Interface is preset to communicate using the following settings: 9600-8-N-1 or 2400-7-N-2, please double check the setting in the balance. Determine the RS232 parameters required for the printer or computer that is to be connected. See computer or printer documentation if assistance is required. If the parameters do not match, it will be necessary to change either the balance settings, or the computer / printer settings.
- B) Upon installation of the interface, the balance will recognize the RS232 Interface and add relevant items to the menu. Configure the balance to the desired RS232 and printing parameters; refer to the balance User Manual for assistance in using the menus.

PRINT

Stable

On, Off

A-Print

Cont, On, Stbl, On, Acc*, 5sec, 15sec,
30sec, 60sec, off

End

Yes, No

*Note: Print and RS232 menu selections may vary between the different balance series.

RS232

Baud

600, 1200, 2400, 4800, 9600, 19200

Parity

7-even, 7-odd, 7-none, 8-none

Stop

1, 2

Handshake

None, Xon-Xoff, RTS-CTS

END

Yes, No

SETUP DEFINITIONS

PRINT / Stable - On	Balance transmits stable data only.
PRINT / Auto Print – Continuous	Balance repeatedly sends data as fast as possible.
PRINT / Auto Print – On Stable	Balance automatically outputs data upon stability.
PRINT / Auto Print – (xx) sec	Balance sends data every (xx) seconds.
PRINT / Auto Print – Off	Only sends data when PRINT is pressed.
RS232 / Baud, Parity, Stop, Handshake	Set parameters to match printer or computer.

CONNECTION

The RS232 Interface Kit cable terminates with a 9 pin Sub-D female connector.

Active pins: Pin 2 = TXD, Pin 3 = RXD, Pin 5 = Ground, Pins 4 and 6 are connected for hardware handshake, Pin 7 = CTS, Pin 8 = RTS.

The Interface connector will connect directly to a computer, an Ohaus printer and many other printers.

OPERATIONRS232 OUTPUT

With the Adapter installed the balance will operate in one of the following three ways:

- RS232 = on, Auto Print = off, Stable = on or off
Pressing PRINT will send the display data.
If Stable is set to On, the balance will wait for a stable reading before sending data.
- RS232 = on, Auto Print = on, Stable = on or off
The balance will automatically send data based on the settings in the Menu.
If Stable is set to On, only stable values will be sent.
- RS232 = off
The interface is turned off. During battery operation, this saves significant power.

Data sent from the Interface is in standard ASCII format terminated with a [CRLF] (carriage return-line feed). The output format is as follows:

Scout Pro (SPx) Output:**Output Format 1 (for the models 303/123/202/402/602/2001/6001/401FZH/601FZH/6000FZH):**Output String:

[weight]	12 characters (right justified)
[space]	1 character
[unit]	5 characters
[space]	1 character
[stability indicator]	1 character; "?" when unstable, blank when stable
[space]	1 character
[Legend]	10 character

Note: All of the fields have fixed length.

Output examples (space indicated by '*'):

```

*****0.00*g*****
*****12.73*g*****?
*****12.72*g*****?
*****0.4500*oz*****
*****0.5950*oz*****?
*****3*PCS**?
*****3*PCS**
*****0.85*oz*****WET*WT
*****0.85*oz*****AIR*WT

```

Output Format 2 (for the models 401/601/6000):

Output String:

[weight]	11~12 characters (right justified)
[space]	1 character
[unit]	1~5 characters
[space]	1 character
[stability indicator]	1 character; "?" when unstable, blank when stable
[space]	1 character
[Legend]	10 character

Note: The unit field length varies with different units. The weight field could be 11 or 12, depending on if the weight string has an additional decimal point.

Output example (space indicated by '*'):

```

*****200*g**
*****311*g*?
*****0.211*kg*?

```

Navigator (NV/NVL/NVT) Output:

Output String:

[weight]	10 characters (right justified)
[space]	1 character
[unit]	1~5 characters (left justified)
[space]	1 character
[stability indicator]	1 character; "?" when unstable, blank when stable
[space]	1 character
[NET]	0 or 3 character
[Legend]	0~16 character

Note: The unit field length varies with different units, the Legend field is only printed in certain modes, and the time string only printed at internal print.

Output example (space indicated by '*'):

```

*****200*g**
*****15.06*g**
*****15*g**NET
*****124*g*?*NET
*****15*g**NET**00:00:02
*****122*g*?*NET**00:00:03
*****15*g**NET*UNDER
***5:10.75*1b:oz*?*NET*ACCEPT*00:00:05
***0:0.50*1b:oz*?*NET*UNDER*00:00:06

```

Traveler (Tax/SE) Output:

Output String:

[weight]	11 characters (right justified)
[space]	1 character
[unit]	1~5 characters
[space]	1 character
[stability indicator]	1 character; "?" when unstable, blank when stable
[space]	1 character
[Legend]	10 character

Note: The unit field length varies with different units.

Output example (space indicated by '*'):

```

*****-0.01*g*?
*****-0.04*g*?
*****4.20*g*?
*****34.91*g*?

```

RS232 INPUT

The balance will respond to various commands sent via the interface adapter. Terminate the following commands when with a [CR] or [CRLF].

Scout Pro and Traveler Commands

?	print current mode
0A	turn Auto-print off
SA	Auto-print on, prints on stability
CA	Continuous Auto-print
(n)A	Auto-print on 1 to 3600 second intervals (n = 1 to 3600)
C	perform span calibration
L	perform linearity calibration
0M	gram mode
1M	ounce mode
2M	troy ounce mode
3M	pennyweight mode
4M	parts counting mode
5M	pound mode
T	tare balance, same as pressing ON-ZERO
V	print software version
(Esc)R	reset balance to factory defaults
P	same as pressing PRINT
LE	print last error code, i.e. [Err 0]
0S	print unstable data
1S	print stable data only

Navigator Commands

P	same as pressing Print
SP	print stable weight only
IP	immediate print of displayed weight (stable or unstable)
CP	Continuous print of weights
SLP	Auto-print stable non-zero weight only
SLZP	Auto-print stable non-zero weight and zero reading
xP	Auto-print on 1 to 3600 second intervals (x = 1 to 3600)
0P	turns auto-print off
PM	print current mode
M	advance to the next enabled mode
PU	print current unit
U	advance to the next enabled unit
T	same as pressing Tare
Z	same as pressing Zero
PV	print software version

AUTO-PRINT OPERATION

Once Auto-Print is activated in the menu, the balance will send data as required. To temporarily stop Auto-Printing, press the PRINT key. If there is data in the print buffer the printer will finish printing this data. A second press will resume Auto-Printing.

ACCESSORIES

For a complete listing of Ohaus printers and other accessories, contact Ohaus Corporation or visit www.Ohaus.com

COMPLIANCE

This accessory has been tested and complies with the approvals listed in the applicable Instruction Manual.

Disposal



In conformance with the European Directive 2002/96 EC on Waste Electrical and Electronic Equipment (WEEE) this device may not be disposed of in domestic waste. This also applies to countries outside the EU, per their specific requirements.

Please dispose of this product in accordance with local regulations at the collecting point specified for electrical and electronic equipment. If you have any questions, please contact the responsible authority or the distributor from which you purchased this device.

Should this device be passed on to other parties (for private or professional use), the content of this regulation must also be related.

For disposal instructions in Europe, refer to www.ohaus.com/weee.

Thank you for your contribution to environmental protection.



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