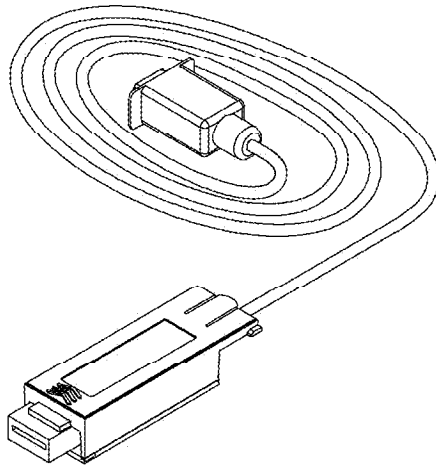




# SCOUT Pro RS232 Interface Kit

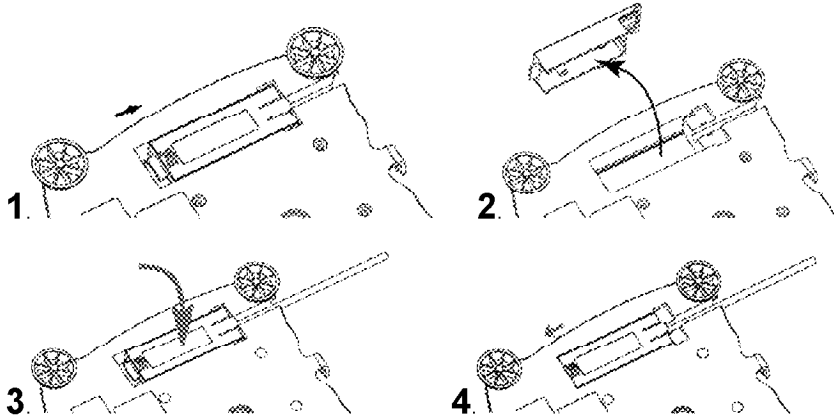
## INSTRUCTION MANUAL



This Interface Kit is for use only with the Ohaus Scout Pro.  
This accessory has been tested and complies with the  
approvals listed in the *Scout Pro Instruction Manual*.

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## INTERFACE INSTALLATION



## SETUP

- A) The Scout Pro Interface is preset to communicate using the following settings: 2400 baud, 7 bit, no parity, no handshake. Determine the RS232 parameters required for the printer or computer that is to be connected to the Scout Pro. See computer or printer documentation if assistance is required. If the setup is different it will be necessary to change either the Scout Pro settings, or the computer or printer settings.
- B) Upon installation of the interface, the Scout Pro will recognize the RS232 Interface and add the following items to the menu structure. Configure the Scout Pro to match the RS232 parameters of the Printer or Computer, refer to the *Scout Pro User Manual* for assistance in using the menus.

CAL	SETUP	UNITS	PRINT	RS232	END
			Stable	RS232	
			On	On	
			Off	Off	
			A-Print	Baud	
			Cont	600	
			On.stbl	1200	
			5sec	2400	
			15sec	4800	
			30sec	9600	
			60sec	19200	
			off	Parity	
			End	7-even	
			Yes	7-odd	
			No	7-none	
				8-none	
				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 / RS232 –Off	Turns Interface off, saving battery power.
RS232 / Baud, Parity, 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 Scout Pro Interface cable allows direct connection with a computer. Connection to the Ohaus SF-42 Printer or other 25-pin serial device requires a 9-pin male to 25-pin male Port Adapter (P/N 80500572) or a Printer Cable (P/N 80500571).

## OPERATION

### RS232 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 will be sent.
- RS232 = off  
The interface is turned off. During battery operation, turning the RS232 Interface off saves significant power.

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

[weight]	10 characters (right justified)
[space]	1 character
[unit]	5 characters max (left justified)
[space]	1 character
[stability indicator]	1 character “?” when unstable, blank when stable
[space]	1 character
[legend]	10 character TOTAL, hh:mm:ss(time interval), etc.
[CR]	1 character
[LF]	1 character

Output examples: (Note: \* and \_ indicate spaces)

*****192.21_g	- Manual, Continuous or On-Stable printing
*****0.01_g_?	unstable reading
*****0.01_g__00:00:00	- Interval Printing (example:15sec interval)
*****176.30_g_?_00:00:15	unstable reading
*****192.08_g__00:00:30	
*****192.21_g	
*****207.80_g_TOTAL	- Totalize Mode (Manual printing only)

## OPERATION (continued)

### RS232 Input

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

?	prints current mode
0A	turis 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	performs Span calibration
L	performs Linearity calibration
0M	gram mode
1M	ounce mode
2M	troy ounce mode
3M	pennyweight mode
4M	parts counting mode
5M	pound mode
T	Tares balance, same as pressing <b>ON-ZERO</b>
V	print software version
(Esc)R	resets balance to factory defaults
P	same function as pressing the <b>PRINT</b> key
LE	prints last error code, i.e. [Err: 0] (Not required if causes s/w problems)
0S	print unstable data
1S	print stable data only

### 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.

(Note: If any mode described below is active, stopping or resuming Auto-Print must be done when the balance is not reading "0".)

### Balance Operation changes with RS232

Display-Hold, Totalize or Specific Gravity Mode (on certain models only)

To enter the active mode with the RS232 option, the PRINT key needs to be pressed when the display reads "0". The "0" will not be printed. Once entered the mode operates as described in the Scout Pro User Manual.

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