



Scout™

Ethernet Interface

INSTRUCTION MANUAL



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INTRODUCTION

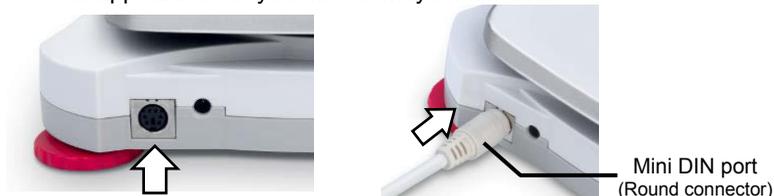
This Interface Kit is for use with Ohaus Scout STX, SPX, SKX and SJX series products.

INTERFACE INSTALLATION

Install the Interface module on the mini DIN port (round connector) located at the rear side of the balance as shown. During this process, please make sure the balance is powered off.

Notes:

- Please make sure the small triangle mark (▲) on the round connector is at the bottom and then plug in.
- The appearance of your model may be different.



SETUP

Upon installation, the balance will recognize the Ethernet Interface Kit and add the following items to the menu structure. Configure the balance to the desired Ethernet and printing parameters.

CAUTION: Invalid or incorrect Ethernet parameters may impact your network system or lose network connectivity. Please check with your network administrator before use.

For SPX, SKX and SJX Balances:

Upon installation, the balance will show [E.t.h.n.E.t] during the power sequence.

| | | |
|--------------|--|---------------|
| PRINT | no , yes | Ethrnt |
| Reset: | off , on | IP Adr |
| Stable: | off | End |
| A.Print: | On.stable (-> Load , Load.Zero) | |
| | interval (-> 13600) | |
| | accept | |
| | continuous | |
| Content: | Result (-> off , on) | |
| | Gross (-> off , on) | |
| | Net (-> off , on) | |
| | Tare (-> off , on) | |
| | Header (-> off , on) | |
| | Footer (-> off , on) | |
| | Mode (-> off , on) | |
| | Unit (-> off , on) | |
| | Info (-> off , on) | |
| Layout: | Format (->Single, Multi) | |
| | Feed (-> Line , 4 Lines, Form) | |
| End Print: | Exit menu | |

Note: Items with bold font are default settings.

SETUP DEFINITIONS

| Menu Settings | Explanation |
|---|---|
| PRINT / A. Print – Off | Only sends data when PRINT is pressed. |
| PRINT / A.Print / On.Stable – Load, Load.Zero | Balance only transmits stable data. <i>Load</i> : Print stable value excluding zero <i>Load.Zero</i> : Print stable value including zero |
| PRINT / A.Print / interval - (xx) sec | Balance sends data every (xx) seconds. |
| PRINT / Auto Print – accept | Balance only sends stable accept data in Check mode. |
| PRINT / A.Print – Continuous | Balance repeatedly sends data as fast as possible. |
| PRINT / Content | On: print relevant content after weighing data Gross – on: G; Net – on: N; Tare – on: T; Info – on: balance will print application mode setting parameters |
| PRINT / Layout / Format - (Single, Multi) | <i>Single</i> : print all data in one line <i>Multi</i> : print all data in multiple lines |
| PRINT / Layout / Feed - (Line, 4 Lines, Form) | <i>Line</i> : feed one line after printing <i>4 Lines</i> : feed four lines after printing <i>Form</i> : feed one page after printing (move to the top of next page after printing) |
| <u>Eth</u> / IP Adr | Displays the balance's IP Address Use the "No" and "Back" keys to show the entire number on the display |

Ethernet Connection

The Interface has a preset IP Address. The Port Number is always **9761** and cannot be changed. For more Ethernet configuration, please refer to the Section Ethernet Configuration.

For STX Balances:

Upon installation, the STX balance will show the Ethernet icon () in the upper right corner.

| Menu added | Function |
|---|---|
| Communication --Ethernet --Ethernet Settings --Print Settings |  <p>For more info, please refer to the STX instruction manual.</p> |

- DHCP is set to "On"
The IP Address will be automatically assigned by the IP share or router.

| Ethernet Settings | |
|-------------------|---------------|
| DHCP | On |
| IP Address | 169.254.1.1 |
| Mask | 255.255.255.0 |
| Gateway | 169.254.1.1 |
| Primary DNS | 169.254.1.1 |

Save Exit

- DHCP is set to "Off"
The user can setup the IP Address, Mask, Gateway, Primary DNS, Alternate DNS and Host Name in the white field shown below.

| Ethernet Settings | | IP Address |
|-------------------|---------------|-------------|
| DHCP | Off | 169.254.1.1 |
| IP Address | 169.254.1.1 | |
| Mask | 255.255.255.0 | |
| Gateway | 169.254.1.1 | |
| Primary DNS | 169.254.1.1 | |

Save Exit

1 2 3 169.254.1.1
4 5 6
7 8 9
Clear 0 . Save
Exit

Note: The Ethernet parameters can also be set refer to the Section Ethernet Configuration.

Ethernet Connection

The Interface has a preset IP Address. The Port Number is always **9761** and cannot be changed.

OPERATION

Output

With the interface installed the balance will operate in several ways according to the settings.
Print format can be switched by xFMT user command.

New Scout Print Format (Default Format):

Output String (Non Check Weighing Applications):

| | |
|-----------------------|---|
| [weight] | 11 characters (right justified) |
| [space] | 1 character |
| [unit] | 5 characters (right justified) |
| [space] | 1 character |
| [stability indicator] | 1 character; "?" when unstable, space when stable |
| [space] | 1 character |
| [T/N/G/PT] | 2 characters (right justified) |
| [Term] | 2 characters |

Note: All of the fields have fixed length.

Output example:

```

*****192.21_****g_*_**
*****0.01_****g_?_**

*****95.0_****g_*_N
*****169.6_****g_*_G
*****95.0_****g_*_N
*****74.6_****g_*_T
    
```

A.Print: off; Stable: off
 Stable reading
 unstable reading

A.Print: off; Stable: on
 Content / Result -> on
 Content / Gross -> on
 Content / Net -> on
 Content / Tare -> on

Output String (Check Weighing Application):

| | |
|-----------------------|---|
| [weight] | 11 characters (right justified) |
| [space] | 1 character |
| [unit] | 5 characters (right justified) |
| [space] | 1 character |
| [stability indicator] | 1 character; "?" when unstable, space when stable |
| [space] | 1 character |
| [T/N/G/PT] | 2 characters (right justified) |
| [space] | 1 character |
| [application status] | 6 characters (right justified) |
| [Term] | 2 characters |

Example:

```

*****192.21_****g_*_**_Accept
*****0.01_****g_?_**_Under
    
```

A.Print: off; Stable: off
 Stable reading,
 Unstable reading

Scout Pro Print 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 (left justified) |
| [space] | 1 character |
| [stability indicator] | 1 character; "?" when unstable, space when stable |
| [Legend] | 1~10 characters |

Output example:

```
*****0.00_g****_*
*****12.73_g****_?
*****0.85_oz****_WET*WT
```

Scout Pro Print Format 2 (for the models 401/601/6000):

Output String:

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

Note: The unit field length varies with different units. The weight field could be 11 or 12, depending on if the weight string has a dot or not.

Output example:

```
*****100_g_*
*****273_g_?_
*****8.5_oz****_WET*WT
```

Print Format 3 (for Certain POS Systems):

Output String:

| | |
|-----------------------|---|
| [weight] | 11 characters (right justified) |
| [space] | 1 character |
| [unit] | 5 characters (right justified) |
| [stability indicator] | 1 character; "?" when unstable, space when stable |
| [Term] | 2 characters |

Note: All of the fields have fixed length.

Output example:

```
*****0.00_****g*
*****12.73_****g?
```

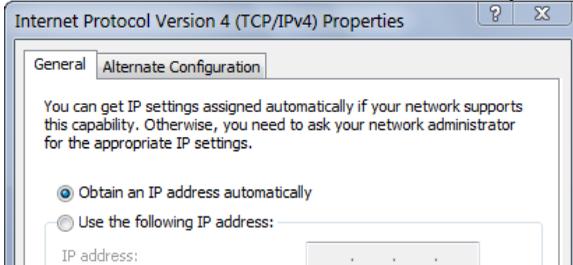
Input: The following interface commands will be acknowledged by the Balance. They are case sensitive. The balance will return “ES” for invalid commands.

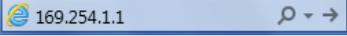
| Command | Function |
|---------|---|
| IP | Immediate Print of displayed weight (stable or unstable). |
| P | Print displayed weight (stable or unstable). |
| CP | Continuous Print. |
| SP | Print on Stability. |
| SLP | Auto Print stable non-zero displayed weight. |
| SLZP | Auto Print stable non-zero weight and stable zero reading. |
| xP | Interval Print x = Print Interval (1-3600 sec) 0P ends interval Print |
| 0P | Turn off Auto Print |
| H | H x “text” Enter Header line , where x = line number 1 to 5, “text” = header text up to 24 alphanumeric characters |
| F | F x “text” Enter Footer line , where x = line number 1 to 2, “text” = footer text up to 24 alphanumeric characters |
| Z | Same as pressing Zero Key |
| T | Same as pressing Tare Key. |
| xT | Establish a preset Tare value in displayed unit. x = preset tare value. Sending 0T clears tare (if allowed). |
| PT | Prints Tare weight stored in memory. |
| PM | Print current application mode (weighing mode). |
| xM | Set current application mode to x. x depends on application 1M: WEIGH, 2M: COUNT, 3M: PERCENT, 4M: CHECK, 5M: DYNAMIC, 6M: TOTAL, 7M:DENSITY, 8M: HOLD, 9M:MOLE |
| M | Scroll to the next enabled mode. |
| PU | Print Current weighing unit: g, kg, lb, oz, etc.... |
| xU | Set balance to unit x: g, kg etc. 1U: g, 2U: kg, 3U: ct, 4U: N, 5U: oz, 6U: ozt, 7U: dwt, 8U: lb, 9U:lb:oz, 10U: grn, 11U: thk, 12U: tsq, 13U:ttw , 14U: tola, 15U:c |
| U | Scroll to the next enabled unit. |
| ON | Brings out of Standby |
| OFF | Goes to Standby. |
| C | Begin Span Calibration |
| AC | Abort Calibration. |
| PSN | Print Serial Number. |
| PV | Print Version: print name, software revision and LFT ON (if LFT is set ON). |
| x# | Set Counting APW (x) in grams. (must have APW stored) |
| P# | Print Counting application APW. |
| x% | Set Percent application reference weight (x) in grams. (must have reference weight stored) |
| P% | Print Percent application reference weight. |
| xCO | Set Checkweighing Over Limit in grams x. |
| xCU | Set Checkweighing Under Limit in grams x. |
| PCO | Print Checkweighing Over Limit. |
| PCU | Print Checkweighing Under Limit. |
| xMM | Set Molar Mass in g/mol . |
| PMM | Print Molar Mass |
| xS | 0 = print unstable data, 1 = print stable only |
| xFMT | 0 = New Scout print format (default) ; 1 = Scout Pro print format 1; 2 = Scout Pro print format 2; 3 = for certain POS system. |
| xRL | 0 = disable response; 1 = enable response. |

ETHERNET CONFIGURATION

To set the Ethernet parameters per web.

1. Make sure the Ethernet Interface Kit is installed properly and network cable is connected to a computer (PC).
2. Set the PC to obtain an IP address automatically as shown below.



3. Open the IE Browser and enter the default IP address of the Ethernet Interface Kit "169.254.1.1" (), the browser will show below page:



4. Click the "Network Configuration" on the left side, and input the user & password. Then click "OK" to proceed.
5. Input the Ethernet parameters in the following page, click "Save Config" to save the changes.

| | |
|-----------------------|---|
| MAC Address: | 00:E0:7C:00:00:00 |
| Host Name: | OHAUETH |
| IP Address: | 169.254.1.1 |
| Gateway: | 169.254.1.1 |
| Subnet Mask: | 255.255.0.0 |
| Primary DNS: | 169.254.1.1 |
| Secondary DNS: | 0.0.0.0 |
| | <input checked="" type="checkbox"/> Enable DHCP |
| | <input type="button" value="Save Config"/> |

Note:

- To use DHCP, enable the DHCP: Enable DHCP

- To use static IP address, disable the DHCP: Enable DHCP and then set the Ethernet configuration parameters.

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.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Please note that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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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