

ETHERNET SETTINGS & FLOATING CLERK MODE PROGRAMMING MANUAL

v1.0



2013072601

1.0 – ASSIGNING THE MASTER SCALE

The Ethernet and Floating Clerk System are located in the SETUP menu.

↓ [6] [0] [0] [0] [MODE]
[4] [9] [5] [3] [4] [4] [PLU]
[1] [↓]
[Enter]

< B A S I C >				(E N T)			
B 0 1 - 0 1				B A S I C			
NET	>0<	SAVE	AUTO				

↓ [Enter]

MACHINE SET – This is the setting to set the Uni-3 as a MASTER scale, that is, the scale which will be in control of a set of scales within the same network number.

* M A C H I N E S E T				> 2 : M A S T E R			
B 0 1 - 0 1 - 0 1				M A C H I N E 2			
NET	>0<	SAVE	AUTO				

↓ [2] [Enter]
[Enter]

MACHINE NUMBER – This is the scale number on the network. Please note that the master scale should always be set as 1. The same machine no. cannot be used on more than one machine. That is, the machine no. must always be unique within the network.
(See fig. 1 for a system layout configuration).

* M A C H I N E N U M B E R							
B 0 1 - 0 1 - 0 4 M A C H I N E N O 1							
NET	>0<	SAVE	AUTO				

↓ [1] [Enter]
[Enter]

NETWORK NUMBER – This is the setting to set up a network of scales belonging to the same network. The value can be numeric only and between 1 and 9, thus, a maximum of 9 networks each comprising of a set of scales in floating clerk mode can be created.

(See fig. 1 for a system layout configuration).

* NETWORK NUMBER			
B 0 1 - 0 1 - 0 5	N E T W O R K N O 1		
NET	>0<	SAVE	AUTO

↳ [1][[Enter]
[Enter]

MASTER PORT NUMBER – This is the port setting on the master scale. The satellites will communicate with the master scale via this port number. In exceptional cases when the memory is corrupted, the port number may be reset to 0. Please check and make sure the master port number is always set as 55101.

* MASTER PORT NUMBER			
B 0 1 - 0 1 - 0 6	P O R T N O 5 5 1 0 1		
NET	>0<	SAVE	AUTO

↳ [5][5][1][0][1][[Enter]
[Enter]

SATELLITE PORT NUMBER – This is the port setting on the satellite scales. The satellite scales and the master scale will communicate with a satellite scale via this port number. In exceptional cases when the memory is corrupted, the port number may be reset to 0. Please check and make sure the master port number is always set as 55101.

* SATELLITE PORT NUMBER			
B 0 1 - 0 1 - 0 7	P O R T N O 5 5 1 0 2		
NET	>0<	SAVE	AUTO

↳ [5][5][1][0][2][[Enter]
[Enter]

PLU SYNC. – This is the setting to automatically synchronize the PLU database only from the master to all the satellite scales within the same network. Thus, the database on the satellite scales will be synchronized automatically to be equal to the PLU database on the master scale.

* P L U S Y N C .										> 1 : Y E S																													
B 0 1 - 0 1 - 0 9										P L U S Y N C										1																			
NET										>0<										SAVE										AUTO									

↳ [1] [[Enter]
[Enter]

2.0 – ASSIGNING THE SATELLITE SCALE

The Ethernet and Floating Clerk System are located in the SETUP menu.

↳ [6] [0] [0] [0] [MODE]
[4] [9] [5] [3] [4] [4] [PLU]
[1] [↓]
[Enter]

< B A S I C >										(E N T)																													
B 0 1 - 0 1										B A S I C																													
NET										>0<										SAVE										AUTO									

↳ [Enter]

MACHINE SET – This is the setting to set the Uni-3 as a SATELLITE scale, that is, the scale(s) which will be linked to a specific MASTER scale on the same network.

(See fig. 1 for a system layout configuration).

* M A C H I N E S E T										> 3 : S A T .																													
B 0 1 - 0 1 - 0 1										M A C H I N E										3																			
NET										>0<										SAVE										AUTO									

↳ [3] [Enter]

[Enter]

COMMUNICATION – This is the setting to switch between online and offline only on satellite scales. That is, you can select whether to have the satellite scale in online mode (communicating with other scales on the same network) or in offline mode (working as stand-alone).

* COMMUNICATION > 2 : ONLINE			
B 0 1 - 0 1 - 0 2 C O M M U N I C A T 2			
NET	>0<	SAVE	AUTO

↓ [2] [Enter]
[Enter]

PLU REFERENCE – This is the setting to select whether a satellite scale should call a PLU from the local (satellite) database or from the master database. If the network system is connected to a PC with SLP5 software, the PLU reference should be set to 1: LOCAL. If the network system does not include SLP5 software, that is, only master and satellites communicate between them and the operator makes changes to a PLU on any scale on the network, it is best to set the PLU reference as 2: MASTER. In the latter, the operator can make price changes on any scale including the master scale and the changes are saved on the master scale. The master will then synchronize the database to all the satellites via the PLU SYNC. setting.

* PLU REFERENCE > 2 : MASTER			
B 0 1 - 0 1 - 0 3 P L U R E F E R 2			
NET	>0<	SAVE	AUTO

↓ [2] [Enter]
[Enter]

MACHINE NUMBER – This is the scale number on the network. Please note that the satellite scales must be set as 2, 3, 4 onwards. The same machine no. cannot be used on more than one machine. That is, a scale must always have a unique machine number on the network. Please note – Machine no. 1 should always be reserved for the master scale! (See fig. 1 for a system layout configuration).

* MACHINE NUMBER			
B 0 1 - 0 1 - 0 4	M A C H I N E N O 2		
NET	>0<	SAVE	AUTO

↓ [2] [Enter]
[Enter]

NETWORK NUMBER – This is the setting to set up a network of scales belonging to the same network. The value can be between 1 and 9, thus, a maximum of 9 networks each comprising of a set of scales in floating clerk mode can be created. It is important that the satellite scale is connected to the correct network number. Please check the network number on the master scale with which you want to link the satellite(s).

(See fig. 1 for a system layout configuration).

* NETWORK NUMBER			
B 0 1 - 0 1 - 0 5	N E T W O R K N O 1		
NET	>0<	SAVE	AUTO

↓ [1] [[Enter]
[Enter]

MASTER PORT NUMBER – This is the port setting on the master scale. The satellites will communicate with the master scale via this port number. In exceptional cases when the memory is corrupted, the port number may be reset to 0. Please check and make sure the master port number is always set as 55101.

* MASTER PORT NUMBER			
B 0 1 - 0 1 - 0 6	P O R T N O 5 5 1 0 1		
NET	>0<	SAVE	AUTO

↓ [5] [5] [1] [0] [1] [[Enter]
[Enter]

SATELLITE PORT NUMBER – This is the port setting on the satellite scales. The satellite scales and the master scale will communicate with a satellite scale via this port number. In exceptional cases

when the memory is corrupted, the port number may be reset to 0. Please check and make sure the master port number is always set as 55101.

* S A T E L L I T E P O R T N U M B E R									
B 0 1 - 0 1 - 0 7 P O R T N 0 5 5 1 0 2									
NET	>0<			SAVE			AUTO		

↳ [5][5][1][0][2][Enter]
[Enter]

MASTER IP ADDRESS – This is the setting to link a satellite scale to a specific master scale. It is important you input the correct IP address of the master scale.
(See fig. 1 for a system layout configuration).

* M A S T E R I P A D D R E S S									
B 0 1 - 0 1 - 0 8 1 9 2 . 1 6 8 . 0 . 1									
NET	>0<			SAVE			AUTO		

↳ [1][9][2][1][6][8][0][0][0][0][1][Enter]
[Enter]

PING TO MASTER – This is a test to check the link between the satellite and the master scale. The satellite will ping the master based on the IP address set in b01-01-08.

* P I N G T O M A S T E R (Z E R O)									
B 0 1 - 0 3 - 0 8 P I N G T O M A (2)									
NET	>0<			SAVE			AUTO		

↳ [ZERO]

* P I N G T E S T									
1 4 0 3 5 - 0 0 0 0									
NET	>0<			SAVE			AUTO		

3.0 – PROGRAMMING THE ETHERNET SETTINGS

The Ethernet settings are located in the SETUP menu, b01-02 <IP ADDR>.

↳ [6] [0] [0] [0] [MODE]
[4] [9] [5] [3] [4] [4] [PLU]
[1] [↓]
[Enter]
[→]

IP ADDRESS – This is a numerical address assigned to each scale and it is based on IPv4 (Internet Protocol version 4). Input the IP address you want to set to the scale. Please note, the IP address of the PC, master scale and satellites should all be in the same group! That is, the first three sets of digits, must always be common on all machines (e.g. 192.168.0.XXX) on the same network. Only the fourth set (XXX) should vary and it must be unique on each machine. When installing a system, please check about this setting with the IT Administrator in the store.

* I P A D D R E S S									
B 0 1 - 0 2 - 0 1					1 9 2 . 1 6 8 . 0 . 1				
NET	>0<				SAVE			AUTO	

↳ [1] [9] [2] [1] [6] [8] [0] [0] [0] [0] [1] [Enter]
[Enter]

SUBNET MASK – This is a logically visible sub-division of an IP network. All machines must have the exact same subnet mask programmed (e.g. 255.255.255.0). When installing a system, please check about this setting with the IT Administrator in the store.

* S U B N E T M A S K									
B 0 1 - 0 2 - 0 2					2 5 5 2 5 5 . 2 5 5 . 0				
NET	>0<				SAVE			AUTO	

↳ [2] [5] [5] [2] [5] [5] [2] [5] [5] [0] [0] [0] [Enter]
[Enter]

DEFAULT GATEWAY – This is the router IP address setting through which the local network sends packets out to another network. When installing a system, please check about this setting with the IT Administrator in the store. If the system is within a LAN (Local Area Network), the gateway is not used. In this case, please set it as 0.0.0.0.

* D E F A U L T G A T E W A Y			
B 0 1 - 0 2 - 0 3			0.0.0.0
NET	>0<	SAVE	AUTO

↓ [0] [0] [0] [0] [0] [0] [0] [0] [0] [0] [0] [0] [Enter]
[Enter]

PING TO PC – This is a test to check the communication between the scale and PC. The scale will ping the PC's IP address and establish if the connection is ok or not.

* P I N G T O P C				(Z E R O)
B 0 1 - 0 3 - 0 8		P I N G	T O	P C (Z)
NET	>0<	SAVE	AUTO	

↓ [ZERO]

4.0 – PROGRAMMING THE PC COMMS SETTINGS

The PC COMMS settings are located in the SETUP menu, b01-03 <PC COM>.

↓ [6] [0] [0] [0] [MODE]
[4] [9] [5] [3] [4] [4] [PLU]
[1] [↓]
[Enter]
[→] [→]

< P C C O M >				(E N T)
B 0 1 - 0 3		(P C C O M)
NET	>0<	SAVE	AUTO	

↵ [Enter]

PC IP ADDRESS – Input the PC's IP address. When installing a system, please check about this setting with the IT Administrator in the store.

* P C I P A D D R E S S									
B 0 1 - 0 3 - 0 1					1 9 2 1 6 8 . 0 . 1 0 0				
NET		>0<		SAVE			AUTO		

↵ [1][9][2][1][6][8][0][0][0][1][0][0][Enter]
[Enter]

PORT NO – This is the port number setting which the Uni-3 uses. By default it is set to 8071. In case the port number is reset to 0 due to some sort of software corruption, please set it back to 8071.

* P O R T N O									
B 0 1 - 0 3 - 0 2					P O R T N O 8 0 7 1				
NET		>0<		SAVE			AUTO		

↵ [8][0][7][1][Enter]
[Enter]

COM CHECK PERIOD(SEC) – This is the communication check interval in seconds. This means, the time interval the scale checks the PC to see whether the communication is ok or not. If the system includes a PC with SLP5 software, please always set the COM CHECK PERIOD to 30, if not, it can be set as 0.

* C O M C H E C K P E R I O D (S E C)									
B 0 1 - 0 3 - 0 3					C O M C H K 3 0				
NET		>0<		SAVE			AUTO		

↵ [3][0][Enter]
[Enter]

COM CHECK TIME OUT(SEC) – This is the communication check time-out in seconds. This means, the time-out interval the scale mainboard checks

the master mainboard to see whether the communication is ok or not.
Please always set the COM CHECK TIME OUT to 2.

* C O M C H E C K T I M E O U T (S E C)										
B	0	1	-	0	3	-	0	4	T I M E O U T	2
NET		>0<			SAVE			AUTO		

↓ [2] [Enter]
[Enter]

FTP USER – This setting is the user name for FTP connection between SLP5 Maintenance Utility and Uni-3. This is only needed to upgrade the Uni-3 firmware from SLP5. Please make sure that the user name is exactly equal to the user name programmed in SLP5's SETUP UTILITY > SCALE SETUP > FTP USER.

* F T P U S E R										(E D I T)
B	0	1	-	0	3	-	0	5	F T P U S	E R
NET		>0<			SAVE			AUTO		

↓ [Edit]

Input a user name for FTP connection (e.g. SERVICE).

S E R V I C E																				
I	N	P		0	0	0	1	-	0	0	0	7	U	S		0	0	0	8	-
NET		>0<			SAVE			AUTO												

↓ [S] [E] [R] [V] [I] [C] [E] [Enter]
[Enter]
[↓] [↓] [↓] [↓] [↓] [↓]

FTP PASSWORD – This setting is the password for FTP connection between SLP5 Maintenance Utility and Uni-3. This is only needed to upgrade the Uni-3 firmware from SLP5. Please make sure that the password is exactly equal to the password programmed in SLP5's SETUP UTILITY > SCALE SETUP > FTP PASSWORD.

* F T P P A S S										[E D I T]									
B 0 1 - 0 3 - 0 6										F T P P A S S									
NET >0<										SAVE AUTO									

↳ [Edit]

Input a password for FTP connection (e.g. ISHIDA495344).

I S H I D A 4 9 5 3 4 4																			
I N P 0 0 0 1 - 0 0 1 2 P A 0 0 1 3 -																			
NET >0< SAVE AUTO																			

↳ [I][S][H][I][D][A][4][9][5][3][4][4][Enter]
[Enter]

PING TO PC – This is a test to check the communication between the scale and PC. The scale will ping the PC's IP address and establish if the connection is ok or not.

* P I N G T O P C										[Z E R O]									
B 0 1 - 0 3 - 0 8										P I N G T O P C (Z)									
NET >0<										SAVE AUTO									

↳ [ZERO]

5.0 – PROGRAMMING THE WI-FI SETTINGS

The Wi-Fi settings are located in the SETUP menu, b01-04 <WiFi>.

↳ [6][0][0][0][MODE]
[4][9][5][3][4][4][PLU]
[1][↓]
[Enter]
[→][→][→]

< W I F I >		[E N T]	
B 0 1 - 0 4 (W I F I)			
NET	>0<	SAVE	AUTO

↳ [Enter]

SECURITY - This is the Wi-Fi's network security type. Scroll through the security types available and select the correct security type which must match the security type set at the Wi-Fi router. When installing a system, please check about this setting with the IT Administrator in the store. Please note: 1:NONE means no security (not Wi-Fi switched off).

* S E C U R I T Y		> 1 : N O N E	
B 0 1 - 0 4 - 0 1 S E C U R I T Y 1			
NET	>0<	SAVE	AUTO

↳ [1] [Enter]
[Enter]

Input the Wi-Fi's router/access point SSID (Service Set Identifier, that is, the Wi-Fi's network name).

* S S I D		[E D I T]	
B 0 1 - 0 4 - 0 3 S S I D [E]			
NET	>0<	SAVE	AUTO

↳ [Edit]

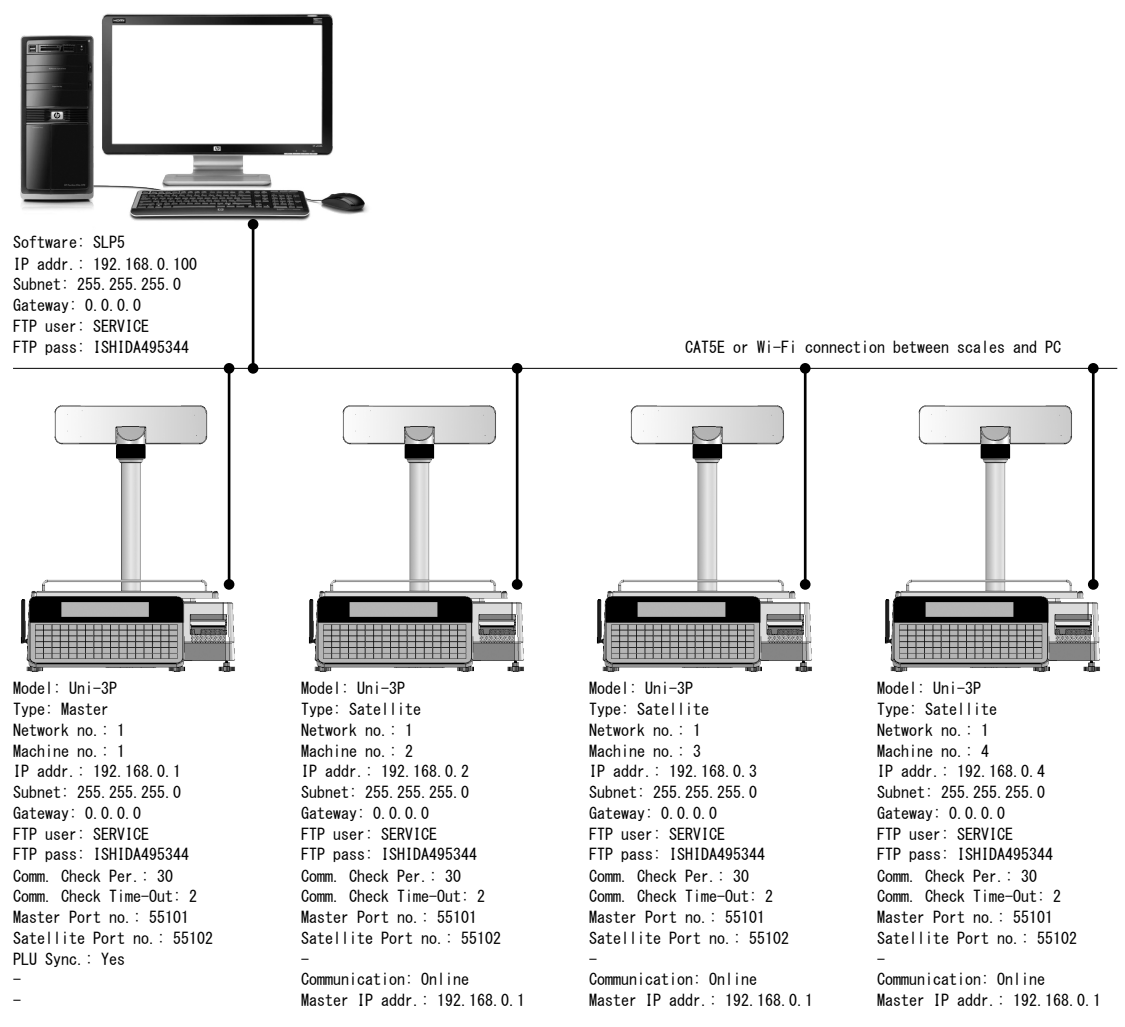
Depending which security type you selected, you may need to input a password and select the password type between ASCII and HEX.

When all the settings have been set correctly and matching the Wi-Fi router/access point settings, ping to PC to check the Wi-Fi communication.

```
* P I N G   T O   P C           [ Z E R O ]
B 0 1 - 0 3 - 0 8   P I N G   T O   P C [ Z ]
NET          >0<          SAVE          AUTO
```

☞ [ZERO]

Fig. 1 - Typical Uni-3 Floating Clerk System



< END >