# **Enviro™ Series**

# **Printer Addendum**

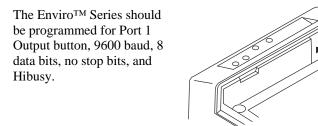
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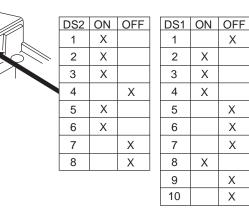
Hardy's Enviro<sup>TM</sup> Series checkweighing instruments can be connected to a variety of serial printers and remote displays via the serial communications port. Recommended printers available through 3<sup>rd</sup> parties are listed below with an explanation of how each printer connects to the Enviro<sup>TM</sup> Series instrument. See the Hardy Instruments Website for an up-to-date listing of recommended printers.

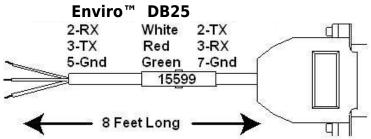
Printers available from Fairbanks Scales	. 1
3550 Tape Printer	. 1
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# Printers available from Fairbanks Scales

#### **3550 Tape Printer**

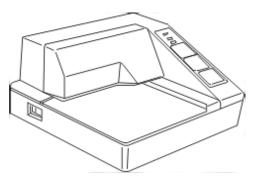




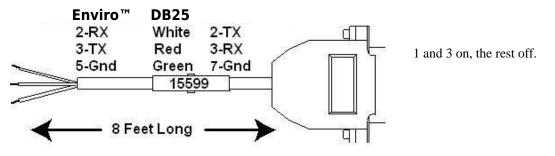


### **TM-U295** Ticket Printer

The Enviro<sup>TM</sup> Series should be programmed for Port 1 Output button, 9600 baud, 8 data bits, no stop bits, and Hibusy.

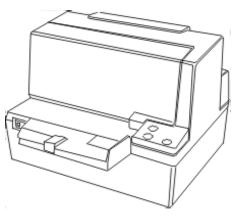


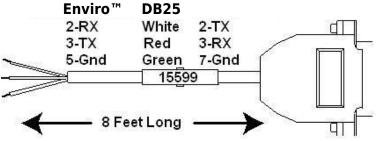
Set the printer's dip switches per the following:



#### **TM-U590 Ticket Printer**

The Enviro<sup>TM</sup> Series should be programmed for Port 1 Output button, 9600 baud, 8 data bits, no stop bits, and Hibusy



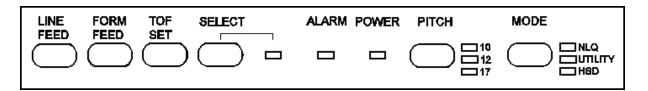


#### Printer dip switch settings:

DSW 1: 1, 3, and 7 on only. DSW 2: All off.

#### **Okidata 186T Form Printer**

The Enviro<sup>TM</sup> Series should be programmed for Port 1 Output button, 9600 baud, 8 data bits, no stop bits, and Hibusy.



#### **To Change Menu Settings:**

- 1. To enter MENU MODE, press and hold <u>SELECT</u> while turning on the printer. The "12" and "UTILITY" LEDs will blink.
- 2. With the printer in the Menu Mode, press <u>SELECT</u> to print the complete menu. The current default settings print out. It is recommended to use tractor fed paper.

Note: The printed menu selections are different for each emulation mode.

- 3. Press <u>LINE FEED</u> to select the relevant group that needs to be changed (the group is the left-hand column on the Menu printout).
- 4. Press <u>FORM FEED</u> to select the relevant item within the selected group (the Item is the center column on the Menu printout).
- 5. Press <u>TOF SET</u> to cycle through the settings available for the item you want to change (the settings are the right-hand column on the Menu printout).
- 6. To continue making changes: press <u>LINE FEED</u> for the next group or press <u>FORM FEED</u> for the next item. Repeat as needed until you are finished changing settings.
- 7. Press <u>PITCH</u> and <u>MODE</u> together to save the changes and exit the Menu Mode.

#### Notes:

Exiting the Menu Mode by turning off the printer will cancel any changed settings.

Printed menu's changes per Printer Emulation Mode. If printer emulation mode is NOT set to ML, set this first, then reprint the menu. Then set menu as follows:

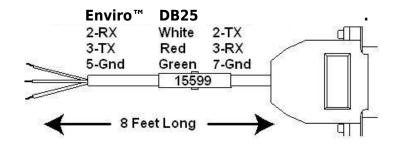
(group)	(item)	(set)
(press LINE FEED to change)	(press FORM FEED to change)	(press TOF SET to change)
Printer Control	Emulation Mode	ML
Font Font	Print Mode DRAFT Mode	Utility SSD
Font	Pitch	10 CPI
Font	Proportional Spacing	No
Font	Style	Normal
Font	Size	Single
Symbol Sets	Character Set	Standard
Symbol Sets	Language Set	American
Symbol Sets	Zero Character	Slashed

(group)	(item)	(set)
(press LINE FEED to change)	(press FORM FEED to change)	(press TOF SET to change)
Symbol Sets	Code Page	USA
Vertical Control	Line Spacing	6 LPI
Vertical Control	Skip Over Perforation	No
Vertical Control	Page Length	11"
Set Up	Craphics	Di dimentian al
Set Up	Graphics	Bi-directional 7
Set-Up	7 or 8 Bits Graphics	
Set-Up	Receive Buffer Size	128K
Set-Up	Paper Out Override	No
Set-Up	Paper Registration 0	0
Set-Up	7 or 8 Bits Data Word	8
Set-Up	Operator Panel Function	Full Operation
Set-Up	Reset Inhibit	No
Set-Up	Print Suppress Effective	Yes
Set-Up	Auto LF	No
Set-Up	Print DEL Code	Yes
Set-Up	Time Out Print	Invalid
Set-Up	Auto Select	No
Set-Up	Impact Mode	Normal
Parallel I/F	I-Prime	Buffer Print
Parallel I/F	Pin 18	+5v
Parallel I/F	Bi-Direction	Enable

Serial PCB Assy Switch Settings: (SW1) (\*\* indicates typical Fairbanks setting)

Parity Type ** Odd parity Even parity	Switch 1 (SW1) on OFF
Parity	Switch 2 (SW1)
** No parity	on
With parity	OFF
Data Bits	Switch 3 (SW1)
** 8 Bits	on
7 Bits	OFF
Protocol	Switch 4 (SW1)
Ready/Busy	ON
** X-ON, X-OFF	off
Test Select	Switch 5 (SW1)
** Circuit	on
Monitor	OFF
Mode Select	Switch 6 (SW1)
** Print mode	on
Test mode	OFF

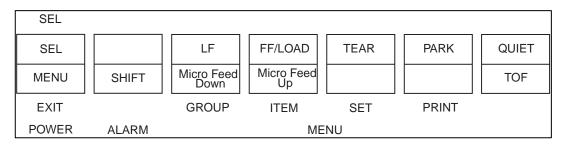
Busy Line Selection	<u>Switch 7, 8 (SW1)</u>
SSD- Pin 11	OFF, ON
SSD+ Pin 11	OFF, OFF
** DTR- Pin 20	on, on
RTS- Pin 4	ON, OFF
(Sw2) (** indicates typical Fairbanks setting)	
Transmission Speed	Switches 1, 2, 3 (SW2)
19,200 bps	ON, ON, ON
** 9,600 bps	off, on, on
4,800 bps	ON, OFF, ON
2,400 bps	OFF, OFF, ON
1,200 bps	ON, ON, OFF
600 bps	OFF, ON, OFF
300 bps	ON, OFF, OFF
110 bps	OFF, OFF, OFF
DSR Input Signal	Switch 4 (SW2)
Active	ON
** Inactive	off
Buffer Threshold	Switch 5 (SW2)
32 bytes	ON
** 256 bytes	off
250 bytes	011
Busy Signal Timing	Switch 6 (SW2)
** 200 ms minimum	on
1 second minimum	OFF
DTR Signal	Switch 7 (SW2)
** Space after power on	on
Space when printer is selected	OFF
Not Used	Switch 8 (SW2)
1101 Used **	off
	UII



### **Okidata 420 Form Printer**

The Enviro<sup>TM</sup> Series should be programmed for Port 1 Output button, 9600 baud, 8 data bits, no stop bits, and Hibusy.

#### **To change Menu Settings:**



- 1. To enter MENU MODE, press and hold the <u>SHIFT</u> key while pressing the <u>SELECT</u> key. The "MENU" legend will be illuminated while in the menu mode.
- 2. With the printer in the Menu Mode, press <u>PRINT</u> to print the complete menu. The current default settings print out. It is recommended to use tractor fed paper.

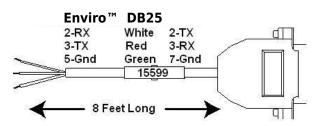
NOTE: The printed menu selections are different for each emulation mode.

- 3. Press <u>GROUP</u> to select the relevant group that needs to be changed (the group is the left-hand column on the Menu printout).
- 4. Press <u>ITEM</u> to select the relevant item within the selected group (the Item is the center column on the Menu printout).
- 5. Press <u>SET</u> to cycle through the settings available for the item you want to change (the settings are the right-hand column on the Menu printout).
- 6. Press and hold the <u>SHIFT</u> key while pressing the SELECT key exit the Menu Mode.

Note: If you turn off the printer before exiting the menu mode, any changes will be lost.

(group)	(item)	(set)
(press LINE FEED to change)	(press FORM FEED to change)	(press TOF SET to change)
Printer Control	Emulation Mode	IBM PPR
Fart		1 14:1:4
Font	Print Mode	Utility
Font	DRAFT Mode	HSD
Font	Pitch	10 CPI
Font	Proportional Spacing	No
Font	Style	Normal
Font	Size	Single
Symbol Sets	Character Set	Set 1
Symbol Sets	Language Set	American
Symbol Sets	Zero Character	Slashed
Symbol Sets	Code Page	USA
Rear Feed	Line Spacing	6 LPI
Rear Feed	Form Tear-off	Off

(group)	(item)	(set)
(press LINE FEED to change)	(press FORM FEED to change)	(press TOF SET to change)
Rear Feed	Skip Over Perforation	No
Rear Feed	Page Length	11"
Bottom Feed	Line Spacing	6 LPI
Bottom Feed	Form Tear-off	Off
Bottom Feed	Skip Over Perforation	No
Bottom Feed	Page Length	11"
Top Feed	Line Spacing	6 LPI
Top Feed	Form Tear-off	Off
Top Feed	Skip Over Perforation	No
Top Feed	Page Length	11"
Set-Up	Graphics	Uni-directional
Set-Up	Receive Buffer Size	64K
Set-Up	Paper Out Override	No
Set-Up	Print Registration	0
Set-Up	Operator Panel Function	Full Operation
Set-Up	Reset Inhibit	No
Set-Up	Print Suppress Effective	Yes
Set-Up	Auto LF	No
Set-Up	Auto Select	No
Set-Up	SI Select Pitch (10CP)	17.1 CPI
Set-Up	SI Select Pitch (12CPI)	12 CPI
Set-Up	Time Out Print	valid
Set-Up	Auto Select	No
Set-Up	Centering Position	DEFAULT
Set-Up	ESC SI Pitch	17.1 CPI
Set-Up	Power Saving	Enable
Set-Up	Power Save Time	5 Min
Parallel I/F	I-Prime	Buffer Print
Parallel I/F	Pin 18	+5v
Parallel I/F	Bi-Direction	Enable
Serial I/F	Parity	None
Serial I/F	Serial Data 7/8 Bits	8 Bits
Serial I/F	Protocol	X-On/X-Off
Serial I/F	Diagnostic Test	No
Serial I/F	Busy Line	SSD-
Serial I/F	Baud Rate	9600 BPS
Serial I/F	DSR Signal	Invalid
Serial I/F	DTR Signal	Ready on Pwr up
Serial I/F	Busy Time	200 ms



## **Remote Display**

The Enviro<sup>TM</sup> Series can be connected to a 1600 Series remote display using Port 1.

The Enviro<sup>™</sup> Series should be programmed for Port 1 Output dis, 2400 baud, 7 data bits, 1 stop bits, and nobusy.

Enviro <sup>™</sup> Series tb1
3 TX
5 Gnd

Note: RS232 communications are limited to a length of 50 cable feet.