

2.3 USING THE OPERATOR PANEL

As mentioned in Paragraph 2.2, the purpose of the operator panel is to allow the operator to configure all programmable features of the DS-180 PLUS. By specifying these features (such as baud rate, left and right margins, communications protocol, etc.) the DS-180 PLUS can be adapted to best suit the operator's needs. Once set, the values are retained in a non-volatile memory and will not be lost when power is turned off. When powered on, the DS-180 PLUS resumes operation with all user-programmable features configured as they were when the printer was last powered off.

The programmable features are divided into two main categories; value features and discrete features. Value features are those features which require a numeric value. Discrete features are those features which require only an on/off setting.

Descriptions of all features and examples of how to set both types are given in the following paragraphs.

2.4 SETTING VALUE FEATURES

The following example shows how to use the operator panel to program the baud rate.

- 1) Press the LOCAL key to place the printer in the "off-line" condition.
- 2) Press the ENTER key to enter "set-up mode". The SET UP indicator will begin blinking, indicating the printer is in set-up mode. A 2-digit feature number will appear in columns 3 and 4 of the digital display, indicating the feature currently addressed. Upon entering set-up mode, "01" will be displayed. Referring to the Value Feature Codes (Appendix G), the user knows that "01" represents the "baud rate" feature.
- 3) To determine the baud rate value currently programmed in the printer memory, press the VALUE key and a number will appear in the digital display indicating a baud rate from 110-9600.
- 4) To increment to a higher baud rate, press and release the DSP↑ key. This will move the display to the next higher rate. Press again to move to the next rate and continue until the desired setting is reached. When the display has reached 9600, pressing the DSP↑ key will wrap around to 110, the lowest baud rate setting. To decrement the display value and reverse the cycle, press the DSP↓ key.
- 5) When the desired value is in the display, press the SET key and the value will be stored in the non-volatile memory. The user may then exit the set-up mode by pressing EXIT, or move on to the next programmable feature by pressing FTN.

NOTE

It is not necessary to exit and reenter set-up mode each time another feature is to be set. Simply select the number of the next feature to be set and proceed as before.

- 6) Pressing FTN will return the digital display to the 2-digit feature number, indicating the feature being programmed. To move to the next feature, press the DSPA key and the display will read "02", indicating Form Length. To check the form length value currently programmed, press the VALUE key and the LED panel will display a number from 1 to 217. To program a longer form length, press the DSPA key. When the desired value is displayed, press the SET key to store it in the non-volatile memory. Exit set-up mode by pressing the EXIT key, or proceed to the next programmable feature by pressing the FTN key and incrementing the display to "03".

The above example depicts the appropriate procedure for programming features 1 through 25. A description of all value features and instruction on how to program each are given below.

NOTE

For future reference, record the setting of each value feature in Appendix G.

2.4.1 FTN 01 - BAUD RATES

BAUD RATES FROM 110-9600 may be selected on the DS-180 PLUS. The baud rate must be programmed from the control panel on the DS-180 PLUS. Baud rates cannot be programmed via the communications line. The feature number for baud rate is "01".

2.4.2 FTN 02 - FORM LENGTH

The form length on the DS-180 PLUS may be programmed for lengths of 1 through 217 lines. The feature number for the form length feature is 02.

Procedure:

- 1) To set the form length to 66 lines, enter set-up mode and advance the display to "02" (the feature number for the form length feature).
- 2) Press the VALUE key and then advance the display to "66" (the desired value for form length).

VALUE FEATURES

FEATURE NUMBER	FEATURE	DEFAULT VALUE	USEI VALI
01	Baud Rate	1200	—
02	Form Length	66	—
03	Top Margin	1	—
04	Bottom Margin	66	—
05	Left Margin	1	—
06	Right Margin	132	—
07	Horizontal Tabs	(The first 16 tabs are set to column 1) 9, 17, 25, 33, 41, 49, 57, 65, 73, 81, 89, 97, 105, 113, 121, 129	— — — — —
08	Vertical Tabs	1 01	—
09	Print Size	10 (10 CPI)	—
10	Primary Character Set	1 (U.S. ASCII)	—
15	Secondary Character Set	9 (APL)	—
25	Buffer Control	1	—

DISCRETE FEATURES

FEATURE NUMBER	FEATURE	DEFAULT VALUE	US VA
28	Print Inhibit	0	✓
29	Expanded Character Printing	1	✓
30	X-on, X-off Synchronization Protocol	1	✓
31	DTR Synchronization Protocol	1	✓
32	Parity (Eighth Bit Control)	0	✓
33	Odd/Even Parity Selection/ Eighth Bit Marking	0	✓
34	Auto New Line	1	✓
36	Auto Line Feed	0	—
37	Auto Carriage Return	0✓	—
38	Form Feed Defeat	0✓	—
39	6/8 Lines per Inch	0✓	—
40	Paper-Out Detection Override	0✓	—
41	Shift-Out selects Double Wide Print	0✓	—
42	LINE/LOCAL Power Up	0	—
43	Serial Interface Disable	0	—
44	Automatic Print Disable	0	—
45	Exit Double Wide Print on Line Terminator	1	—
46	Escape Sequence Disable	0	—
47	Display Mode	0	—
48	Secondary Character Set Enable	0	—
49	DS-180 PLUS Graphics	1	—

DISCRETE FEATURES

FEATURE NUMBER	FEATURE	DEFAULT VALUE	US VA
51	Unidirectional Text printing	0	—
59	Handshake on Busy	0	—
60	Alternate Graphics Control	0	—
61	Eighth Bit Enable	0	—
63	ETX/Acknowledge Handshaking	0	—
71	Acknowledge After Busy	0	—
98	Feature Dump	0	—
99	Self-Test	0	—

1 = Enabled

0 = Disabled