

Using Mitutoyo DP-1VA with Mecmesin Products

This instruction leaflet will enable you set a Mitutoyo printer up to function with a Mecmesin instrument and must be used with other instructions supplied. The Mecmesin instrument needs to be set to 9600 baud and securely connected to the input port on the printer with the correct cable.

How to change the printer parameters

The printer parameters and interface mode must be set up correctly as below.

1. Entering the 'PARAMETER SETUP MODE'.
 - With the printer switched off hold down [DATA].
 - Press [POWER] whilst holding [DATA].
 - Release [POWER] and then [DATA] button.

Parameter items need to be set according to the table on the right. Items 2-6 need to be identical, the UNIT must be set to blank (AUTO).

2. Changing parameter settings.

When you step to each parameter the current parameter value is printed.

[STAT] is used to change the parameter value (note this new value is printed).

[DATA] is used to save the parameter value or setting.

- a)
 - Item 1 is PARAMETER CLEAR, press [DATA] only to step to next parameter. (If you press [STAT] instead you will default all the parameters!)
 - To change parameter value press [STAT]
 - To accept the parameter value and move to next parameter press [DATA]
- b) Changing parameter items 2-13 and 16-20:
 - To change parameter value press [STAT].
 - To accept the parameter value and move to next parameter press

[DATA].

- c) Changing item 14, date setting;

- To alter the Year, press [PRINTER]
- To alter the Month, press [CL]
- To alter the Day, press [CE]
- If you wish to print the date, press [STAT]
- To save the date entry and move to item 14, press [DATA]

- d) Changing item 15, time setting;

- To alter the Hour, press [PRINTER]
- To alter the Minute, press [CL]
- If you wish to print the time you have set, press [STAT]
- To save the time entered and move to item 15, press [DATA]

3. Completing parameter input mode and storing parameters;

- Once [DATA] is pressed in each section, described above, the information you have entered is stored.

If DP-1VA UNIT is set to AUTO (blank) and no units are sent from the instrument then the DP-1VA will print 'inch.'

Important: If the printer is switched off during an operation, the parameters originally entered will not be stored or remembered for the next use.



Parameter items

1. PARAMETER CLEAR
2. SYSTEM MODE (DP1, MP)
3. WORK MODE (MODE 0,1,2,3)
4. BAUDRATE
5. PARITY
6. DATA LENGTH
7. PRINT SIZE
8. BACK FEED
9. POWER SAVE
10. PRINT DENSITY
11. BUZZER
12. TIME PRINT
13. DATE FORMAT
14. DATE
15. TIME
16. UNIT (not displayed from the AFG)
17. LOG RESUME
18. OUT LOG
19. INPUT AXIS (only in MP mode)
20. CUL AXIS (only in MP mode)

PARAMETER SETUP MODE

```
SYSTEM MODE :DP-1
WORK MODE   :MODE1
BAUDRATE    :9600
PARITY      :NON
DATA LENGTH :8
PRINT SIZE  :NORMAL
POWER SAVE  :NORMAL
PRINT DENSITY: NORMAL
BUZZER MODE :ON
TIME PRINT  :ON
DATE FORMAT :YYYY/MM/DD
DATE 2009/ 4/29
TIME 11:40
UNIT       :
```

Please set the parameters according to the table above

Overview

The Mecmesin gauge needs to be set to 9600 baud and connected to the printer with the correct cable. Further to this the interface parameter on the DP-1VA must be set as below. If all of these steps are not followed then the printer will not print.

Setting the Interface Mode to Compatible

There are two interface modes on the DP-1VA - Advanced and Compatible. We need the Compatible mode to work with a Mecmesin gauge.

To enter the interface mode setup do the following:

- Hold CE button down whilst turning on the printer.
- Release once the printer turns on.

The printer then prints out the segment shown in the Printed Example for the Interface Mode marked with a red 1. This displays the current interface mode.

Press STAT to change the interface mode. The segment shown in the Printed Example for the Interface Mode marked with a red 2 will be printed.

Note that in 2 the fifth line says 'INTERFACE: ADVANCED'. The interface mode needs to be changed again to read 'INTERFACE: COMPATIBLE'.

When you have finished press DATA. This saves the parameter setting.

Press Tx on the Mecmesin gauge to test that the values are printed out correctly.

How to change the Interface Mode (excerpt from manual errata)

Operation	Printout
CE + Power	*DP-1VA* SELECT SDP INTERFACE PUSH STAT: MODE CHANGE PUSH DATA: MODE FIX INTERFACE: ADVANCE
STAT	INTERFACE: COMPATIBLE
DATA	Changing to data input mode

