For the complete manual please download from: http://newall.com, Click Technical Support to access the download page.

**Warnings**

The mains supply is connected into a switch mode power supply (separate from your DP700) via a detachable supply cord supplied. If another supply cord is used, it must have fitted a C5, 10A, EARTHED mains connector with a cord rated for at least 10A.

If a mains plug is not already fitted to the supply cord or is of the wrong type, then a suitable EARTHED plug should be used which complies with the relevant specifications for plugs and socket-outlets.

You can only use the DP700 with Newall Spherosyn and Microsyn analogue encoders.

Unit only to be serviced by Newall qualified personnel or authorised alternatives.

Turn off the power by disconnecting the power supply connector before you connect the encoder(s)

**Technical Specification**

**Environmental**

<table>
<thead>
<tr>
<th>Operating Temperature</th>
<th>Storage Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>-10°C to 50°C</td>
<td>-20 to 70°C</td>
</tr>
</tbody>
</table>

**Environmental Conditions**

- IP40 (Stand Alone)
- IP54 (Panel Mount)

**Relative Humidity** - maximum 95% for temperature up to 31°C

**Electrical**

- BS EN 55022:1998 Class B
- BS EN 55024:1998

**Input to Power Supply Unit (Supplied)**

- 100-240V (47-63Hz)
- External switch-mode
- Output voltage 15VDC

**Input Voltage to DP700**

- 15-24VDC ±10%

**Conforms to Low Voltage Directive**

Note: Newall Measurements Systems reserves the right to change specifications without notice.

**Connections**

- Encoder Input
- Connection 1, 2 or 3 According to Model
- RS232 Output
- External PSU Input
- Cabinet equipotential terminal for grounding to machine

For more information about this or any of our products please contact us at sales@newall.com or visit www.newall.com
Understanding the Keypad

Axis 1
Axis 2
Axis 3

Message Display
Power LED

Axis Selection Key
Switches between Zero and Axis Preset modes

Numeric Keys
Switches between Absolute and Incremental modes

Enter Key
Switches between Inch and mm display

Clear Numeric Entry
Information selection (scrolls through options on Message display)

Center Find
Function Menu Key

Undo Key
Function Navigation Keys

Zero an Axis in Zero Mode
Ensure DP700 is in Zero Mode

Zero an Axis in Set Mode
Ensure DP700 is in Set Mode

Preset an Axis
Ensure DP700 is in Set Mode

Entering Setup
Until display shows

Setting up the Unit

Default Settings
Optional Settings

SETUP LANGUAGE
ENG GB
ENG US
FRANCAIS
DEUTSCH
ITALIANO
POLSZCZ
TURKCE
AFR
CESKY
ESPAÑOL
FRANCAIS
ITALIANO
POLSZCZ
TURKCE

SETUP TYPE
GENERIC
MILL
LATHE

SETUP ENCORDER
SPH 2G
USN 10
USN 5

SETUP RES
0.005
0.01
0.02
0.05
0.001
0.002

SETUP MEASURE
RAD
DIA

SETUP ZERO APP
0.000
Use numeric keypad to enter a value

SETUP ERR COMP
See full manual on website for more details

SETUP PLANE
See full manual on website for more details to exit setup

SETUP FEED
(----)
(----)
(----)
(----)
(----)

SETUP FEED
(----)
(----)
(----)
(----)

SETUP FEED
ON
OFF

SETUP FEED
OFF
ON

SETUP BEEP
0
user defined, use numeric keypad to enter value (value is in whole minutes)

SETUP SLEEP
See full manual on website for more details

SETUP RESET
Must be set to match encoders on the machine

Lathe version, X axis set to DIA as default

Note: values in mm