For the complete manual please download from: [http://newall.com](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 DP500) 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 DP500 with Newall Spherosyn LT and Microsyn LT analogue encoders.

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

If a Spherosyn LT encoder travels over 2.2m an error message will be displayed, see full manual for details.

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

### Technical Specification

<table>
<thead>
<tr>
<th>Environmental</th>
<th>Storage Temperature</th>
<th>Electrical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature</td>
<td>-10°C to 50°C</td>
<td>EU Directive 73/23/EEC (Low Voltage Directive)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BS EN 55022:1998 Class B</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BS EN 55024:1998</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>maximum 95% for temperature up to 31°C</td>
<td>Input to Power Supply Unit (Supplied)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100-240V (47-63Hz)</td>
</tr>
<tr>
<td>Disposal</td>
<td></td>
<td>External switch-mode</td>
</tr>
<tr>
<td>At the end of its life, you should dispose of the DP500 in a safe manner applicable to electronic goods. The case work is suitable for recycling. Please consult local regulations on disposal.</td>
<td>Output voltage 15VDC</td>
<td>Input Voltage to DP500</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15-24VDC ±10%</td>
</tr>
</tbody>
</table>

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

### Connections

![Diagram of DP500 Connections]

- **Encoder Input Connection 2 or 3 According to Model**
- **External PSU Input**
- **Cable Clamp**
- **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](http://www.newall.com).
Understanding the Keypad

Axis Selection Key
Digifind / Reference
Switches between Zero and Axis Preset modes
Switches between Absolute and Incremental modes
Switches between Inch and mm display
Information selection (scrolls through options on Message display)
Function Menu Key
Function Navigation Keys
Sleep key

Zero an Axis in Zero Mode
Ensure DP500 is in Zero Mode of Axis 1, 2 or 3

Zero an Axis in Set Mode
Ensure DP500 is in Set Mode of Axis 1, 2 or 3

Preset an Axis
Ensure DP500 is in Set Mode

Entering Setup
Until display shows

Setting up the Unit

Default Settings
- Language
- Type
- Encoder
- Resolution
- Measure
- Error Compensation
- Plane
- Funcs
- BEEP
- Sleep

Optional Settings
- Language
- Type
- Encoder
- Resolution
- Measure
- Error Compensation
- Plane
- Funcs
- BEEP
- Sleep

Note: values in mm

Zero an Axis in Zero Mode of Axis 1, 2 or 3
Zero an Axis in Set Mode of Axis 1, 2 or 3
Preset an Axis of Axis 1, 2 or 3

User defined, use numeric keypad to enter value (value is in whole minutes)

Enter Key
Clear Numeric Entry
Center Find
Undo Key

See full manual on website for more details

Must be set to match encoders on the machine
* Lathe version, X axis set to DIA as default

E NTERING S ETUP