General Setup

To enter general setup

Polar Co-ordinates

Arc Contouring

Taper Angle

Skew

English US

Data Logging

Tool Offsets

Vector

Function

Spanish

Setup Function

More

Sub Datums

Line Hole

English UK

PCD

Axis Summing

Chinese

French

General

From main setup menu

5

Optional Settings

To enter general setup

Press any key to exit general setup

Exit

Back

Select more for other languages

General Setup

Language:

1. English (UK)
2. Spanish
3. English (US)
4. French
5. Japanese
6. German
7. More

English US

Data Logging

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Spanish

Setup Function

More

Sub Datums

Line Hole

English UK

PCD

Axis Summing

Chinese

French

Optional Settings

Beep on

Select more for other languages

General Setup

Press any key to exit general setup

Exit

Back

Select more for other languages

General Setup

Beep:

1. Off
2. On

General Setup

Display Brightness:

1. Low
2. Medium
3. High
4. More

General Setup

Sleep (min): 0

General Setup

Axis Coupling:

1. Off
2. On

General Setup

Unlock Axis:

1. Off
2. On

Enable or Disable Functions

Numeric Key Setup function

1. DC Colours
2. Vector
3. Rapid Angle
4. Axis Coupling
5. More

Press key 7 for the options below

more

Controller parameter

Enable or Disable Functions

Numeric Key Setup function

1. DC Colours
2. Vector
3. Rapid Angle
4. Axis Coupling
5. More

Press key 7 for the options below

General Setup

Probe DIameter: 4.000

General Setup

To return to the previous menu

Back

To return to normal operation

Back

To enter general setup

.exit Back

Select more for other languages

General Setup

Application:

1. Line
2. Hole
3. 3D
4. Generic

General Setup

Panel:

1. X, Y
2. Z, Y
3. Z, X

General Setup

Optional Settings

Function

1. Beep on
2. Beep off
3. Select 10%
4. Select 20%
5. Select 30%
6. Select 40%
7. Select 50%
8. Select 60%
9. Select 70%
10. Select 80%
11. Select 90%
12. Select 100%

General Setup

Numeric Key

1. DC Colours
2. Vector
3. Rapid Angle
4. Axis Coupling
5. More

press key 7 for the options below

Probe connection

Auxiliary / RS232 output

Cable clamp

External reference connection

External PSU input

Cabinet equipotential terminal for grounding to machine

NEWALL

DP1200 Quick Start up Guide

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 DP1200) 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.

Encoder inputs 1, 2 and 3 can be used with Newall Spherosyn and Microsyn analogue encoders. Encoder input 4 can be used with Spherosyn/Microsyn or RS422 (9v TTL) dependant on model.

The power supply must be disconnected before opening the unit and repairs should be completed by qualified personnel.

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

Technical Specification

Environmental

Operating Temperature: -10°C to 50°C
Storage Temperature: -20 to 70°C
Environmental Conditions - IP40 (Stand Alone)

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

Disposal

At the end of it’s life, you should dispose of the DP1200 in a safe manner.

The case work is suitable for recycling. Please consult local applicable to electronic goods.

The case work is suitable for recycling. Please consult local regulations on disposal.

Connections

Encoder input connection

1, 2, 3 or 4 according to model

Input to External Switch Mode Power Supply Unit (Supplied) 100-240V (47-63Hz)

Input Voltage to DP1200 15-24VDC ±10%

Conforms to Low Voltage Directive

Connections

Encoder input connection

1, 2, 3 or 4 according to model

Input to External Switch Mode Power Supply Unit (Supplied) 100-240V (47-63Hz)

Input Voltage to DP1200 15-24VDC ±10%

Conforms to Low Voltage Directive

Connections

Encoder input connection

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Connections

Encoder input connection

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Input to External Switch Mode Power Supply Unit (Supplied) 100-240V (47-63Hz)

Input Voltage to DP1200 15-24VDC ±10%

Conforms to Low Voltage Directive

Connections

Encoder input connection

1, 2, 3 or 4 according to model
Understanding the Keypad

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
Soft Keys (left, middle & right)

Centre Find
Navigation Keys

Undo Key
Sleep Key

Zero an axis in Zero Mode
Ensure DP1200 is in Zero Mode of Axis 1, 2, 3 or 4

Zero an axis in Set Mode
Ensure DP1200 is in Set Mode of Axis 1, 2, 3 or 4

Preset an axis
Ensure DP1200 is in Set Mode

Entering Setup
Menu

Axis Setup (Analogue)

Legend Setup:
1. To setup the 1st axis
2. To setup the 2nd axis
3. To setup the 3rd axis
4. To setup the 4th axis

Set the legend of the axis to a character from the table

To return to the previous menu

Default Settings
Optional Settings

Encoder type must match to encoder in use, or the DP1200 will not measure correctly.

This is the resolution that will be used in the axis display

Changes the direction of travel from positive to negative or negative to positive.

When set as a lathe the 1st axis is automatically set to the diameter setting.

User defined, use numeric keypad to enter value in inches or millimeters

See full manual on web site for more details

Spherosyn 2G
Selects Spherosyn 2G

Microsyn 2G (10µm)
Selects Microsyn 2G (10µm)

Microsyn 2G (5µm)
Selects Microsyn 2G (5µm)

Spherosyn 2G & Microsyn 2G (10µm)
Selects 0.005 (5µm)

Spherosyn 2G & Microsyn 2G (5µm)
Selects 0.010 (10µm)

0.005
Selects 0.005 (5µm)

0.010
Selects 0.010 (10µm)

0.001
Selects 0.001 (1µm)

0.002
Selects 0.002 (2µm)

0.005
Selects 0.005 (5µm)

0.010
Selects 0.010 (10µm)

This setting provides a visual indication when the set zero limit is passed.

See full manual on web site for more details

0.000
User defined, use numeric keypad to enter value in inches or millimeters

Spherosyn 2G & Microsyn 2G (10µm)
Selects 0.005 (5µm)

Spherosyn 2G & Microsyn 2G (5µm)
Selects 0.010 (10µm)

0.005
Selects 0.005 (5µm)

0.010
Selects 0.010 (10µm)