Digital Readout PC Interface

Part No: DRO-USB-PC-4X
Doc V: 1.1

- The interface connects up to four encoders using the USB port on your PC. The user-friendly software provides a simple to use readout on the computer screen.
- Most of the decoding is handled by the interface, this reduces the computer specification required. Any Windows based hardware running XP upwards would be suitable.
- Linear or rotary quadrature encoders can be connected on any axis. The encoder resolution can be set along with the user defined display resolution
- Designed and built in the UK.

Specifications

Specifications	
Axis input	4
Encoder	Linear
Display Colour	Selectable per axis - red, orange, blue, green, grey or black
Encoder types	Linear and Rotary
Encoder input	5v TTL 90º quadrature phase difference
Linear resolution settings	User defined - 1mm to 0.00001mm
Storage temperature	-10°C ~ +55°C
Operating temperature	0°C ~ +45°C
Relative humidity	20% to 85% Non-condensing
Operating voltage	5 volt (powered by USB port)
Weight	1 Kg

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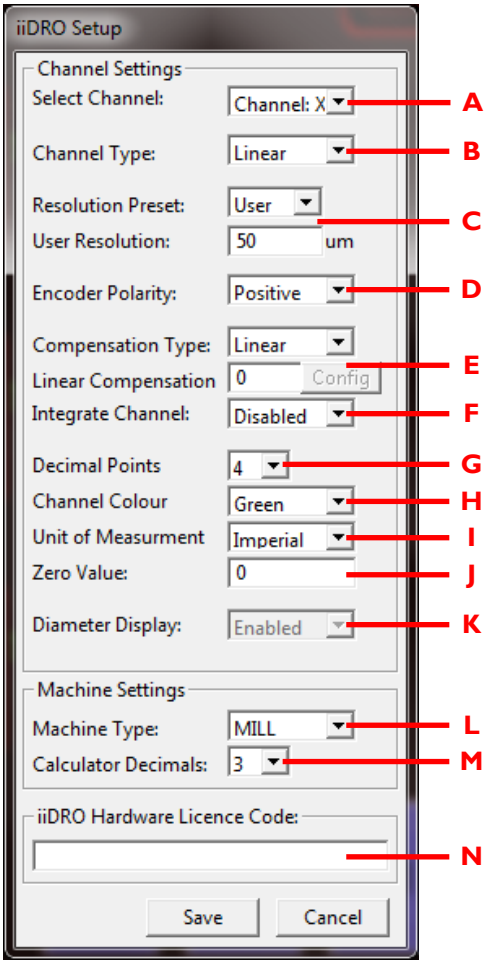
Functions

Standard Functions	
mm/inch	Metric/imperial display. Selectable for each per axis
Absolute/incremental	Display position to the user-defined datum (absolute) Display new position relative to the previous position (incremental)
Trigonometric calculator	Standard functions including square root and trigonometric
Angular axis configuration	Linear or Angular display on any axis
Error compensation	Linear error compensation
Radius/Diameter display	Radius mode will display physical travel. Diameter mode will display work piece diameter
Centre find	Calculates half the distance between two selected points
Axis summing	Display the combined travel of carriage and compound slide
Datum Entry	Enter a user defined offset value
Zero preset	A user preset value for axis zero key

Setup Options



Setup Options	
A	Axis selection for setup - X, Y, Z or A
B	Input type - linear, rotary, disable
C	Resolution presets - 50, 25, 10, 5, 1um or user set value
D	Encoder count direction - negative, positive
E	Linear compensation
F	Combine axis travel - disable, X, Y, Z or A
G	Axis display resolution
H	Display colour - red, orange, blue, green, grey or black
I	Axis display units - metric, imperial
J	Axis zero preset value - 0 or user defined
K	Radius or Diameter display (lathe mode only)
L	Machine type - mill or lathe
M	Calculator decimal places - 5, 4, or 3
N	Licence code - located on interface unit

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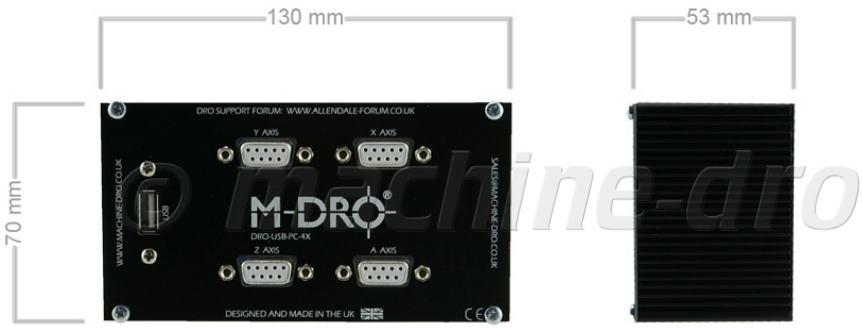
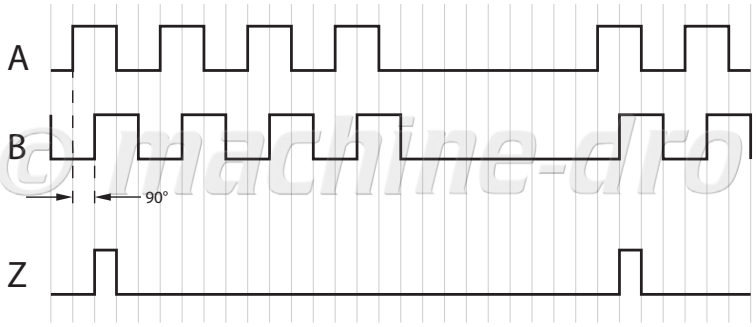
Dimensions



Output Signal



- Fitted with 9 pin female D type connector for encoder input.
- For encoder compatibly please check compatibility chart datasheet.

	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
Signal	N/C	0v	N/C	Screen	N/C	A	+5v	B	Z

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