NEWALL

NMS 800 Readout System

The NMS 800 Digital Readout (DRO) is the newest in Newall's range of premium readouts. The DRO hosts many productivity enhancing features that will increase machine tool efficiency.

The NMS 800, when matched with Newall's Spherosyn Serial and Microsyn Serial encoders, provides years of maintenance free, trouble free performance. Newall's inductive encoders are simple to install and designed to provide consistent accuracy and reliability even under the harshest workshop conditions.

FEATURES INCLUDE:

- Clean, crisp PMVA LCD display with wide viewing angle
- > Lathe, Mill and General Purpose functions
- > Self Sensing Encoder Input
- > Available in 2, 3, or 4 axes
- > User definable function keys
- > Linear and angular readings
- > Stand alone or panel mounting



Five Year, Three Year no Fault

Warranty Included!

*USA & Canada Only

*Varies by Region, Terms and Conditions Apply

The Newall Advantage

- Backed by a company with over 50 years of proven reliability in manufacturing DRO systems & linear encoders
- Encoders carry an IP67 rating All electronic and measuring components are sealed from the environment
- Continually provides accurate readings even under the harshest shop conditions
- No cleaning or maintenance required
- Tolerant to shock and vibration
- No glass or tape to break or scratch
- Ease of installation—no backer bar or machined surface required





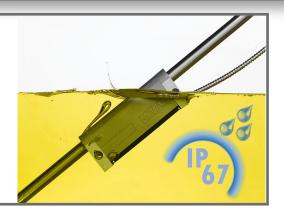


General Purpose Functions	 2, 3 or 4 axes configuration Inch/mm conversion Four user definable function keys Absolute / Incremental operation Axis pre-set / zero reset Zero approach warning (graphic and audio) Feed-rate display Newall Encoder auto-detection RPM display* Angular readings* * requires rotary encoder 	 Auto resolution detection* Linear and segmented error compensation Digifind / reference mark Centre find (establish workpiece midpoints) Programmable memory for datums and tools Built in calculator Undo function (move back up to eight steps) USB port for loading new firmware and settings Sleep mode Scaling factor 	
Milling Specific Functions	Bolthole circle / PCD calculations Line hole / grid array calculations Arc contouring Pocket / island milling Summing two encoders within the same plane		
Lathe Specific Functions	 Radius / diameter readings Tool offset library (50) Taper calculation Vectoring (requires 3 axes) 		
Encoder Compatibility	Serial Input: Newall Spherosyn & Microsyn Serial, Propriety Signal <u>not compatible with previous Newall DRO</u> <u>Encoders (S2G/M2G).</u> Digital (TTL) Input: Newall TTL Encoders. Many third party TTL encoders including Rotary. Contact your local sales representative for advise on compatibility.		
Display	PMVA LCD Screen — 127mm x 122mm — Membrane keypad with audible tactile feedback		
Construction	High pressure aluminium alloy cast front and rear panel		
Dimensions	Height: 187mm (7.36"), Width: 306mm (12.04"), Depth: 46.6mm (1.83")		
Electrical Requirements	Voltage of 100-240 VAC (47 – 63 Hz) to external PSU included		

Encoder Mechanical Specs.	Spherosyn Serial	Microsyn Serial	
Scale Travels	52mm—13,000mm	50mm—1,000mm	
Scale Diameter / Material	15.25mm / Stainless Steel	5.75mm / Carbon Fibre	
Reader Head Dimension	112mm x 53.5mm x 28mm	75mm x 37.5mm x 23mm	
Overall Scale Length	Travel Length + 258mm	Travel Length + 173mm	
Standard Cable Length	3.5 metre and/or 7.0 metre with Armour and D Style Connector		
Output Type:	Newall Proprietary Serial		

The Spherosyn Serial and Microsyn Serial Advantage:

- > IP67 environmental rating, fully submersible
- > Withstands dust, dirt, oil and other harsh environment conditions
- > No mechanical wear characteristics
- > No more broken or scratched glass
- > Requires no cleaning or regular maintenance



Worldwide Sales Offices

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