

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 to shortcut to you're most common features
- > 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



Designed and engineered in the

UNITED KINGDOM



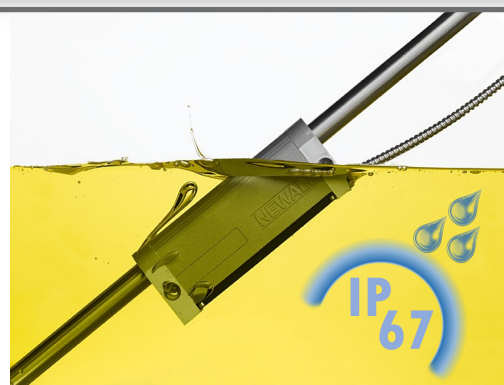
Sensata
Technologies

General Purpose Functions	<ul style="list-style-type: none"> • 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) • Feed-rate display • Newall Encoder auto-detection • RPM display* • Angular readings* <p>* requires rotary encoder</p>	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Bolthole circle / PCD calculations • Line hole / grid array calculations • Arc contouring • Pocket / island milling • Summing two encoders within the same plane 	
Lathe Specific Functions	<ul style="list-style-type: none"> • Radius / diameter readings • Tool offset library (50) • Taper calculation • Vectoring (requires 3 axes) 	
Encoder Compatibility	<p>Serial Input: Newall Spherosyn & Microsyn Serial, Propriety Signal <i>not compatible with previous Newall DRO Encoders (S2G/M2G).</i></p> <p>Digital (TTL) Input: Newall TTL Encoders. Many third party TTL encoders including Rotary. Contact your local sales representative for advise on compatibility.</p>	
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

Americas **Newall Electronics Inc**
+1 614 771 0213 1803 O'Brian Street, Columbus, Ohio, 43228 —USA

Websites: www.newall.com **And** <https://www.sensata.com/products/position-sensors-encoders/dros>

Email: sales@newall.com

Features and specifications subject to change without notice.

023-82630/0