

NMS100 SERIAL

DIGITAL READOUT SYSTEM

Newall's NMS100 is a powerful and intuitive DRO that is housed in a rugged cast aluminium chassis with a wipe clean front panel. The innovative design allows the operator to easily configure any single axis position applications. The NMS100 DRO is interfaced with Newall's Spherosyn Serial and Microsyn Serial encoders that are designed to provide consistent accuracy and reliability even under the harshest work shop conditions.



Features

- Clean, crisp LCD display
- Wide viewing angle
- Intuitive message display
- Long life membrane keypad
- Feed rate display
- Applications include:
 - General machining functions, back gauges, Sawing, cut off, inspection, length gauges, Metrology

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

Warranty: 5 year mfg, 3 year No Fault*

**USA & Canada Only*

**Varies by Region, Terms and Conditions Apply*

General Purpose Functions	<ul style="list-style-type: none"> • Feed Rate Display • Multiple Language Support • Absolute / Incremental • Zero Approach Warning (graphic) • Pre-set and Zero reset • Instant Inch/mm conversion • Linear compensation • Digifind/pre-loadable reference • Centre find (establish workpiece midpoints) • Programmable Memory (store up to 200 co-ordinates) • Imperial fractional display • Undo function (move back up to eight steps if a mistake is made)
Encoder Compatibility	Newall Spherosyn Serial & Newall Microsyn Serial (not compatible with S2G or M2G)
Display	PMVA LCD Screen — Membrane keypad with audible tactile feedback
Options	Panel Mount Housing Mounting arms (see mounting arm data sheet) DRO data collection package, via RS232.
Construction	Aluminium Body
Weight	0.5Kg (1.1lbs)
Dimensions	Height: 104mm (4.1"), Width: 200mm (7.87"), Depth: 90mm (3.54")
Data Interface	RS-232 Output

Electrical Requirements	Voltage of 100-240 VAC (47 – 63 Hz) to external PSU included Voltage Input to NMS 100 display 15 – 24 VDC ± 10%
Operating Temperature	0°C to 55°C (32°F to 131°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)

SPECIFICATIONS

Encoder	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	99.45mm x 47mm x 30.5mm	75mm x 35mm x 25mm
Overall Scale Length	Travel Length + 258mm	Travel Length + 187mm
Standard Cable Length	3.5 metre and/or 7.0 metre with Armour and D Style Connector	

Compatible with the Spherosyn and Microsyn Serial encoders, which have a number of advantages:

- 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



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