

# NMS100 DIGITAL

## DIGITAL READOUT SYSTEM

Newall's NMS100 Readout System 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 the DRO for general machining. The NMS100 Digital can be interfaced with Newall's or third party TTL rotary or linear encoders.

Specialist rotary setup to support angular display with decimal degrees or degrees / minutes / seconds supported.



### 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,
- Selectable resolutions
- Auto rotary / angular configuration

### Newall Advantage

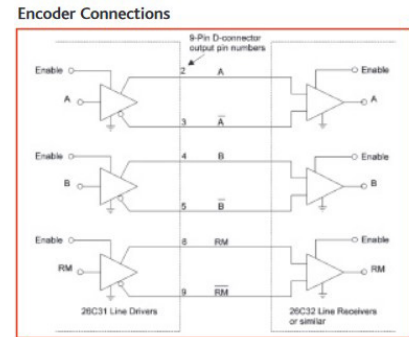
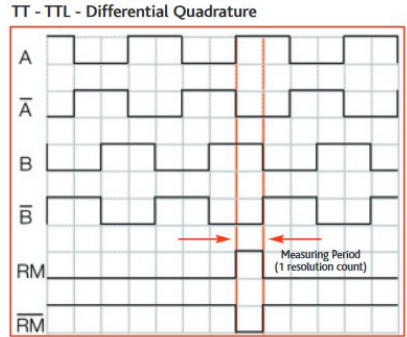
- Backed by a company with over 50 years of proven reliability in manufacturing DRO systems & linear encoders
- Encoders carry an IP67 rating – All electronic and measuring components are sealed from the environment
- Continually provides accurate readings even under the harshest shop conditions
- No 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

<b>General Purpose Functions</b>	<ul style="list-style-type: none"> <li>• Feed Rate Display</li> <li>• Multiple Language Support</li> <li>• Absolute / Incremental</li> <li>• Zero Approach Warning (graphic)</li> <li>• Pre-set and Zero reset</li> <li>• Instant Inch/mm conversion</li> <li>• Linear compensation</li> <li>• Digifind/pre-loadable reference</li> <li>• Centre find (establish workpiece midpoints)</li> <li>• Programmable Memory (store up to 200 co-ordinates)</li> <li>• Imperial fractional display</li> <li>• Undo function (move back up to eight steps if a mistake is made)</li> </ul>
<b>Encoder Compatibility</b>	Newall's SHG-TT, SHG-TS, MHG-TT, MAG-TS encoders, other third party rotary and linear TTL encoders
<b>Display</b>	PMVA LCD Screen — Membrane keypad with audible tactile feedback
<b>Options</b>	Panel Mount Housing Mounting arms (see mounting arm data sheet) DRO data collection package, via RS232.
<b>Construction</b>	Aluminium Body
<b>Weight</b>	0.5Kg (1.1lbs)
<b>Dimensions</b>	Height: 104mm (4.1"), Width: 200mm (7.87"), Depth: 90mm (3.54")
<b>Data Interface</b>	RS-232 Output

<b>Electrical Requirements</b>	Voltage of 100-240 VAC (47 – 63 Hz) to external PSU included Voltage Input to NMS100 display 15 – 24 VDC ± 10%
<b>Operating Temperature</b>	0°C to 55°C (32°F to 131°F)
<b>Storage Temperature</b>	-20°C to 70°C (-4°F to 158°F)

**COMPATIBLE WITH QUADRATURE TTL SIGNAL ENCODERS—9 WAY D SUB CONNECTOR**

<b>Pin 2</b>	Channel A
<b>Pin 3</b>	Channel Ab
<b>Pin 4</b>	Channel B
<b>Pin 5</b>	Channel Bb
<b>Pin 6</b>	0V
<b>Pin 7</b>	5V
<b>Pin 8</b>	Channel RM
<b>Pin 9</b>	Channel RMb



**Compatible with SHG and MHG linear 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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