For in-place strength testing of normal and high performance concrete.

Product Information

Measures the compressive strength of concrete accurately and effectively, on-site in the field.

The Windsor® HP Probe system rapidly and accurately determines the concrete compressive strength of a structure by driving a probe into the concrete with a known amount of force. Improved and enhanced over thirty years, this modern system is capable of measuring concrete with a maximum compressive strength of 17,000 PSI (110MPA). It has been ruggedized for use in the construction environment, yet refined to provide the user with a simpler system to operate. An electronic measuring unit has been added to help ensure proper test results which can be recorded for later review or uploading to a personal computer.

It is non-destructive and can be used with equal effectiveness on fresh and mature concrete. Equally accurate results are obtained on horizontal or vertical surfaces provided that the probe is perpendicular or at right angles to the test surface.
Windsor® Probe

Features & Benefits

- New electronic measuring system enhances accuracy and efficiency
- Measurement to 17000 psi (110 MPa)
- Memory for data storage and uploading to PC
- Safe: no accidental discharge and no recoil
- Fast and economical use
- Determines the developing strength of concrete; improves safety, ensures quality and reduces
- Monitors the strength for rehabilitation as concrete ages

Applications

- Form Removal
- Structural Analysis
- Light-weight concrete strength determination
- Standard concrete strength determination
- High-strength concrete strength determination
- High-precision determination

Conforms to the Following Tests, Specifications and Practices

- ASTM C-803 Standard Test Method for Penetration Resistance of Hardened Concrete
- ACI 228.1R-03: In-Place Methods to Estimate Concrete Strength
- ACI 228.2R-98: Nondestructive Test Methods for Evaluation of Concrete in Structures
- ANSI A.10-3
- BS 1881 Part 207 Testing Concrete
- TS 13537 Test Method for The Determination of Penetration Resistance of Hardened Concrete

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Windsor® Probe

Probes

Two probe styles are available: one for lightweight, low density concrete with air filled aggregate and the other probe for more standard mix designs. Also, two standard power settings facilitate testing fresh concrete as well as mature mixes.

There are two power settings available, low and standard power. The low power is used where concrete strength is less than 3000 psi (19.4 MPa). The newly designed silver probes can be used for high performance concrete with strength up to 17000 psi (110 MPa). The probes are made of a high strength alloy, specially heat treated and annealed to achieve a hardness of Rockwell C 48. Special machining of each probe eliminates stress concentrations.

The gold probe has a 56% greater cross-sectional area than the silver; it is recommended for lightweight concrete - less than 125 lbs/cu. ft. (2003 Kg/M3) in density. The silver probe is used with concrete having a density greater than 125 lbs/cu. ft. (2003 Kg/M3).

Probes Available in Sets of 3 or Case of 75, Gold or Silver

[Images of probes and measuring unit]

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## Specifications

### Z-WP-1000 Windsor® HP Probe System

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approximate Compressive Strength Range (Varies with mix design)</td>
<td>1500 PSI / 10 MPA to 17000 PSI / 110 MPA</td>
</tr>
<tr>
<td>Weight</td>
<td>26 lbs / 11.8 Kg</td>
</tr>
<tr>
<td>Case Dimensions</td>
<td>20” x 16” 14” 510mm x 410mm x 356mm</td>
</tr>
</tbody>
</table>

### Z-WP-700 Windsor Probe Electronic Unit w/Windsorlinx software

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>4 lbs</td>
</tr>
<tr>
<td>Power</td>
<td>2 “AA” Batteries</td>
</tr>
<tr>
<td>Display</td>
<td>2x16 Trans. Reflective</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>32° to 122° F / 0° to 50° C</td>
</tr>
<tr>
<td>Software</td>
<td>Windsorlinx - Windows PC Compatible / USB Interface Required</td>
</tr>
</tbody>
</table>

### Z-WP-534 Windsor® HP Probe System

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approximate Compressive Strength Range (Varies with mix design)</td>
<td>1500 PSI / 10 MPA to 9000 PSI / 62 MPA</td>
</tr>
<tr>
<td>Weight</td>
<td>26 lbs / 11.8 Kg</td>
</tr>
<tr>
<td>Case Dimensions</td>
<td>20” x 16” 14” 510mm x 410mm x 356mm</td>
</tr>
</tbody>
</table>

## Sales Numbers

- **Z-WP-1000**  Windsor® HP Probe System
- **Z-WP-700**  Windsor Probe Electronic Unit with Windsorlinx software
- **Z-WP-534**  Windsor® Probe Manual System
- **Z-WP-1000-Ext**  Windsor® Probe System Extended Warranty

## Consumables (must be purchased separately)

- **U-PRS-01**  Silver Probes for Standard Density Concrete
- **U-PRS-03**  Gold Probes for Light Weight Concrete

Purchasing Notes: Probe contain a powder charge as such they are considered a hazardous good for shipment purposes. Please contact us for ordering outside the United States so we can review the proper shipping procedures with you.

We would also recommend the **R-HR-8000 Mini R-Meter** for locating safe areas to test.

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Learn more at [www.NDTjames.com](http://www.NDTjames.com) or [www.NDTjames.eu](http://www.NDTjames.eu)