

# Windsor® Probe



Test Well. Build Well.

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 environ-

ment, 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.

Strength    Locators    Ultrasonics    Corrosion    Moisture



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## 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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## Probes

Two probe styles are available: one for light-weight, 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.

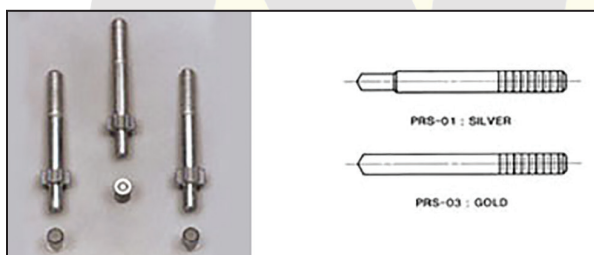
The gold probe has a 56% greater cross-sectional area than the silver; it is recommended for light weight concrete - less than 125 lbs/cu. ft. (2003 Kg/M3) in density. The silver probe is used with concrete having a density greater than 125 lbs/cu. ft. (2003 Kg/M3).



*Loading the Driver*



*Using the Windsor Probe Measuring Unit*



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

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## Specifications

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

Approximate Compressive Strength Range (Varies with mix design)	1500 PSI / 10 MPA to 17000 PSI / 110 MPA
Weight	26 lbs / 11.8 Kg
Case Dimensions	20" x 16" 14" 510mm x 410mm x 356mm

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

Weight	4 lbs
Power	2 "AA" Batteries
Display	2x16 Trans. Reflective
Operating Temperature	32° to 122° F / 0° to 50° C
Software	Windsorlinx - Windows PC Compatible / USB Interface Required

### Z-WP-534 Windsor® HP Probe System

Approximate Compressive Strength Range (Varies with mix design)	1500 PSI / 10 MPA to 9000 PSI / 62 MPA
Weight	26 lbs / 11.8 Kg
Case Dimensions	20" x 16" 14" 510mm x 410mm x 356mm



## 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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