



R-Meter MK III

The re-birth of a classic rebar locator with the latest in sensing and microprocessor technology!

Applications:

Structural Engineers

Rebar Mapping

Rebar Network Analysis

Features and Benefits

- Eddy current sensor design for greater accuracy.
- Single sensor for all depth ranges.
- Locates rebar, post tension cable, conduit, and copper pipe.
- Determine bar size up to 4.5" (115 mm) deep.
- Daylight visible display.
- Rugged and splash resistant case.
- Optional scan cart.
- Locates up to 8" (200 mm) deep.
- Conforms to ACI 318, BS 1881 #204, DIN 1045, CP 110, EC 2, SIA 162, DGZfP B2.

R-Meter MK III

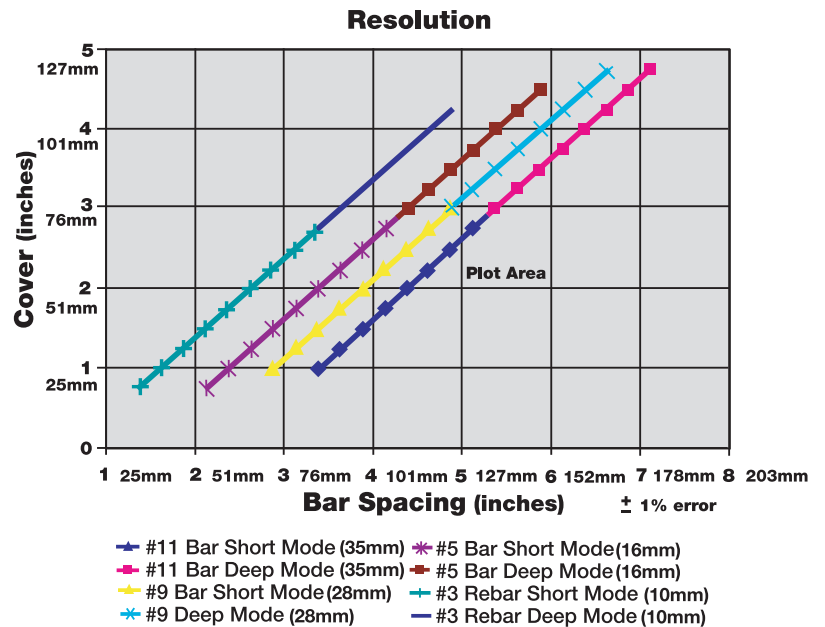


The James Instruments R-Meter MK III represents the re-birth of a classic rebar locator. It utilizes the latest in eddy current sensing and microprocessor technology to accurately locate, determine depth, and estimate diameter of metal objects in concrete.

The eddy current sensor is specifically designed to react to the outer surface of the metal object. It is uninfluenced by small metal particles in the concrete, whether the concrete is fresh or hardened, wet, or dry. The eddy current sensor also allows the unit to locate both ferrous as well as non-ferrous metals in concrete; thereby finding not only steel reinforcing bars accurately, but tendons, copper tubing, conduit, and more.

The latest in microprocessor technology not only conditions the signal from the sensor for more accurate and dependable results but provides the user with the information they need. Rebar diameter can be estimated by using a simple system of comparison all fully automated for consistent, repeatable results with increased resolution over previous models. The microprocessor can also statistically analyze the data, searching automatically for minimum cover points, and the least cover of a group of points. Cover points can be displayed as a symbolic map of a structure to assist the user in finding problematic areas. Built in memory can store over 80 thousand individual data points for processing.

The optional scan cart can be used to graphically



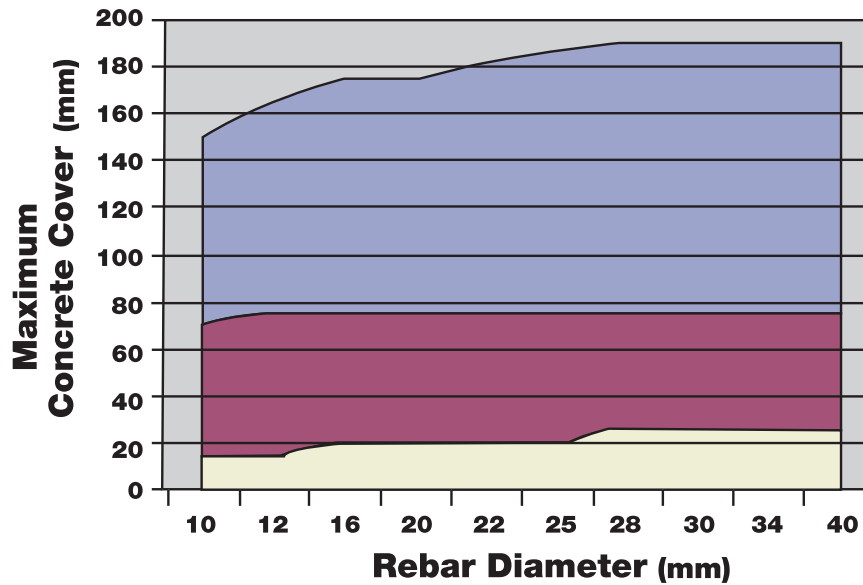
display a cross section of the concrete and the location of the metal objects within. With its built in encoder objects can be located with both distance and depth recorded.

Fully integrated P.C. software allows the upload

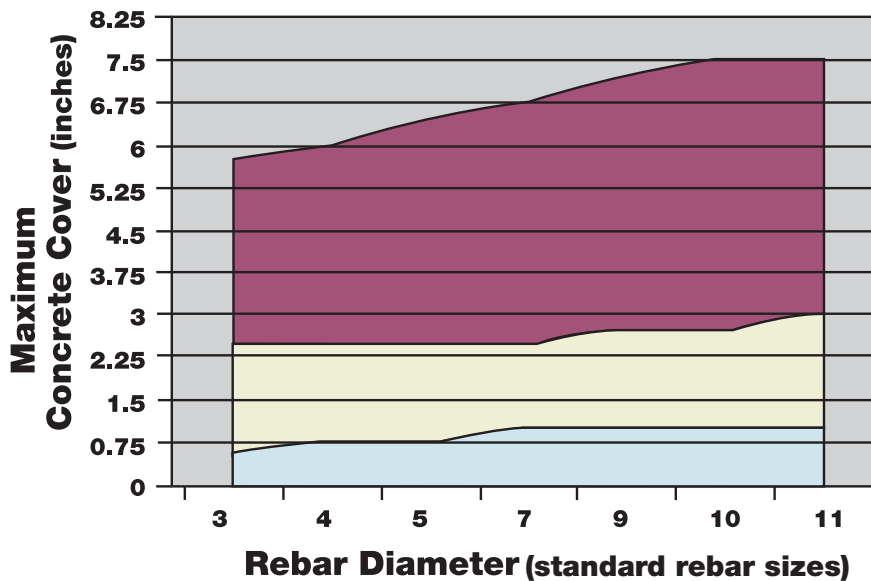
and storage of data points via RS-232.

The ruggedized R-Meter MK III provides the field engineer/technician with all the tools necessary to locate and determine what and where all metal objects are in the structure.

Metric Rebars Ranges



Imperial Rebar Ranges



- Deepmode
- Shortmode
- Bar Too Close

Technical Specifications



Probe shown in optional Scan Cart.



Unit with probe and spaces block.

Main Unit

Weight: 5.4lbs (2.5Kg)
Size: 10.63" L x 9.68" W x 4.88" H
27cm x 24.5cm x 12.4cm

LCD Size: 320 x 240 pixels

LCD Dim.: 3.5" L x 4.65" H
8.9cm x 11.8cm

Recharging Voltage: 18v

Memory Capacity: 80 thousand data points

Battery Life: 4 – 6 hrs continues run time

Probe Dimensions

Weight: 1 lb (0.45Kg)

Size: 5" L x 2.4" W x 1.6" H
12.7cm x 6cm x 4.1cm

Scan Cart Dimensions

Weight: 1 lb (0.45Kg)

Size: 8.25" L x 5.6" W x 2.25" H
20.1cm x 14.2cm x 5.7cm

Maximum Scan Length: 48 ft. 14.6m

Sales Numbers

R-C-3000 BASIC UNIT includes the following: Main Unit, Probe, Coil Cable, Sizing Template, Charger, and Headphones

R-C-3050 BASIC UNIT WITH SOFTWARE includes the following: Main Unit, Probe, Coil Cable, Sizing Template, Charger, Headphones, RS-232 Cable, and Basic Software.

R-C-3100 COMPLETE SYSTEM includes the following: Main Unit, Probe, Coil Cable & 6ft Scan Cart Cable, Scan Cart, Headphones, Charger, Complete Software (Basic and Scanning Software), RS-232 Cable, Sizing Template, 2 Extension Rods.

Individual Components

R-C-3010 Main Unit

R-C-3015 Probe

NDT JAMES INSTRUMENTS INC.
NON DESTRUCTIVE TESTING SYSTEMS

3727 North Kedzie Avenue,
Chicago, Illinois 60618
1-800-426-6500 (773) 463-6565
FAX (773) 463-0009
e-mail: info@ndtjames.com
http://www.ndtjames.com