

Probes for Concrete – Model CP

Typical Applications

Reinforced concrete structures including bridge decks and substructures, parking garages, docks and buildings.



Rebar probes, **Model CP-REB**, and steel probes, **Model CP-STL**, are used to monitor the condition of reinforcing steel in reinforced concrete structures. They are usually installed the same distance below the surface as the steel being monitored. Probes are often used in conjunction with an Ag/AgCl reference electrode such as the Model CB-AGG for linear polarization resistance measurements of corrosion rate. In this application, the rebar probe is the working electrode while the rebar net is the counter electrode. By periodically monitoring corrosion rate, the efficacy of sealers, membranes and inhibitors can be verified.

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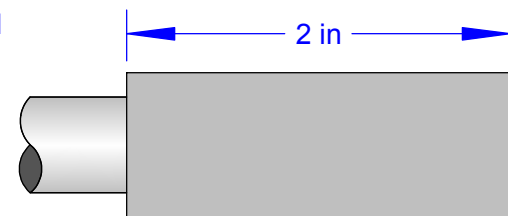
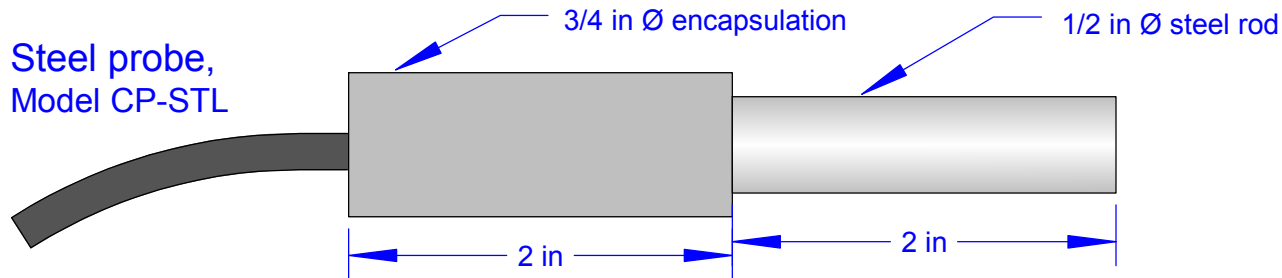
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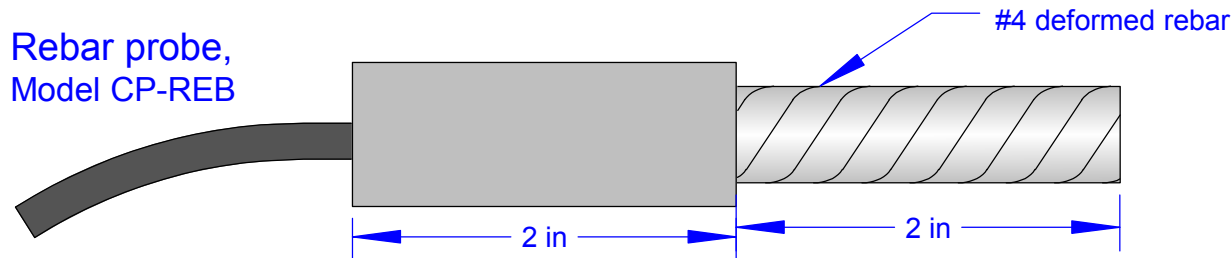
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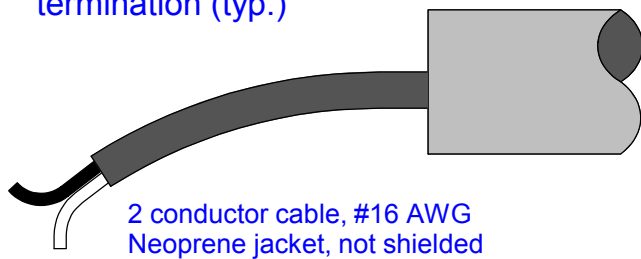
*C Series
Concrete
Products*



Note: The steel probe is available on special order with a second encapsulation on the free end. The exposed steel rod remains 2 inches unless otherwise specified.



Two-wire
termination (typ.)



Specify as EDI Model CP-xxx-yWnnn where
xxx = material: STL or REB
y = number of wires in termination: 1 or 2
and nnn = lead wire length in feet

Single wire termination, code 1W,
#14AWG RHW black wire.

Two wire terminations, code 2W,
2 conductor cable, #16 AWG
Neoprene jacket, not shielded

A 2-wire termination with two #14AWG
RHW wires is available on request.

Center the probe in rebar net square.
Locate the reference electrode above or below it about 1 inch (2-1/2 cm) away. All cables should be strapped to the rebar net.

Rebar lead on CB-AGG-2W is bonded to the rebar net. Bond is to be at least 18 inches (45 cm) away from reference electrode.

reference electrode
(CB-AGG)

rebar probe
(CP-REB)

To make polarization resistance measurements, use the rebar probe as the working electrode and the rebar net as the counter electrode.

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Polarization Probe Installation

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SCALE NONE

DRAWN BY FJA

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