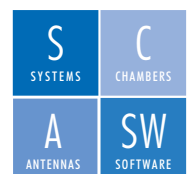
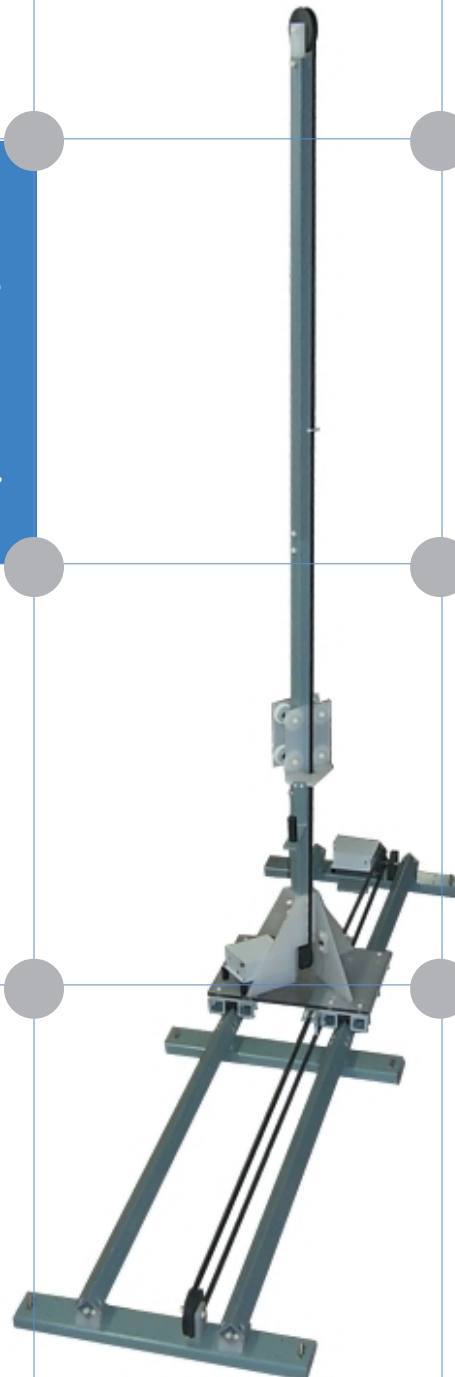


# TDK Probe Positioning System <sup>®</sup>

P P - 0 2 F I E L D P R O B E P O S I T I O N E R

The TDK RF Solutions  
PP-02 Probe Positioner  
permits remote  
X-Y positioning in  
EMC test environments.



# PP-02 TDK Probe Positioner

## Product Overview

TDK RF Solutions Inc. offers a suite of products specifically designed to simplify complex electromagnetic compatibility (EMC) and RF testing. The TDK RF Solutions PP-02 Field Probe Positioner is an x-y axis positioner that reduces test interruptions by allowing remote positioning of probes in EMC test environments.

**Remote Control** The positioner is remotely controlled through the TDK RF Solutions SI-300 system interface. Communication between the PP-02 and SI-300 is achieved by using fiber optic cables.

**No E-Field Interference** The PP-02 is non-obtrusive to the test environment because of its DC battery supply, fiber optic transmission system, and non-conductive construction. This allows accurate measurements to be made without electric field interference from the positioner.

**Automated EN-61000-4-3 Compliance** The PP-02 can be combined with TDK TestLab™ software to perform automated field leveling and uniformity schemes over a defined plane, satisfying EN 61000-4-3 field uniformity measurement requirements.

## Applications

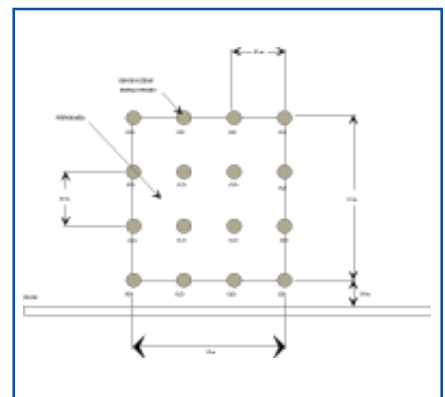
- EN 61000-4-3 field uniformity measurements
- Automotive requirements for Expanded Field Grid Mapping
- Multiple point planar grid mapping for Electric Field Distribution

## Features

- Non-conducting and rugged construction
- Remotely controlled with the TDK SI-300 system interface
- Powered by rechargeable batteries
- Fiber optic controlled
- Vertical axis detaches easily for storage
- Field-leveling software interfaces with probe positioner to perform various field uniformity measurements
- Flexible grid definitions for a variety of test requirements

## Benefits

- Test interruptions are reduced by allowing test engineers to remotely position field probes during EMC/RF test procedures
- During field uniformity measurements, test engineers can remotely position the probe, eliminating 32 manual position changes (16 horizontal, 16 vertical) reducing test times up to 20%; for test facilities that use two antennas to cover the frequency, the PP-02 eliminates 64 manual position changes.
- With TDK TestLab™ software, the probe can be positioned automatically



## Probe Positioning System Components

The system consists of the following components:



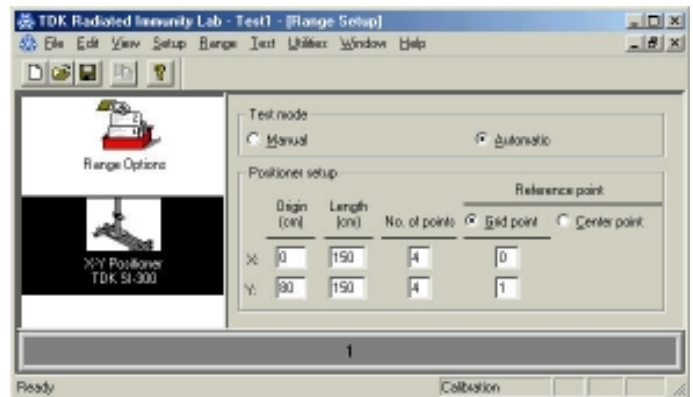
### Probe Positioner PP-02

The TDK RF Solutions PP-02 Field Probe Positioner permits remote X-Y positioning in EMC test environments. The PP-02 sweeps up to 1.5 meters at a speed of 2.5 cm per second and accurately positions to within 1 cm. The PP-02 is constructed of professional grade fiberglass and plastic and is battery-powered so it does not interfere with EMC testing.



### System Interface SI-300

The TDK RF Solutions SI-300 controller is a multi-purpose system interface designed for manual or computer-controlled EMC test systems. The SI-300 provides a user-friendly method for controlling the PP-02 Probe Positioner. The SI-300 controls up to four devices.



### Optional - Test System running TDK TestLab™ Software

TDK Radiated Immunity Lab software is designed to automate radiated immunity testing by controlling the signal source output levels and monitoring the power levels necessary to generate the required field levels over a set of frequencies. In field uniformity measurements, TDK Radiated Immunity Lab performs single point calibration, validation, and field uniformity calculations.



## Electrical Specifications

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Power Requirements: 12 volts DC, 5 Ah rechargeable battery pack

## Mechanical Specifications

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Overall Dimensions: Height 300 cm (118 in.); length 241 cm (95 in.); width 74 cm (29 in.)

Weight: 35 kg (77.6 lbs.)

Maximum Load: 4.5 kg (10 lbs.)

Sweep Length: 1.5 m (5 ft.)

Positioning Accuracy: 1 cm

Construction: Non-conductive plastic, fiber-glass, acetal, and polycarbonates

Linear Drive System: Belt drive

Finish: Preventive water absorption seal

## Ordering Information

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Product Name: Probe Positioner

Model Number: PP-02

Price: \$22,000 U.S. List

Lead Time: 8 weeks

Options: HLP-3003C Compact Log Periodic Antenna 30MHz-3GHz  
LPDA-0803 Log Periodic Antenna 80MHz-3GHz

## Sales History

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Product Created: 1998

Units Sold to Date: 12

Notes: 11 units sold as part of turnkey system with TDK Immunity Lab software;  
1 unit sold as stand-alone product (customer wrote software driver)

## Additional Information

To learn more about TDK RF Solutions products please contact a TDK sales representative:

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