EMI probe set TP-EMI-HS6

The EMI probe set TP-EMI-HS6 is a complete set of probes, conveniently packed in a carry case. Together with the Handyscope HS6-1000, Handyscope HS6 DIFF-1000, WiFiScope WS6-1000 or WiFiScope WS6 DIFF-1000 with option E installed, it turns your instrument into an EMI pre compliance tester.

The set contains three differently sized H field probes and an E field probe. To connect the probes to the scope, a short semi flexible antenna cable and a long flexible antenna cable are included. For proper grounding and termination, a grounded 50 Ohm terminator is also included. The tripod allows exact positioning of the probe near the test subject.

Set contents

The EMI probe set TP-EMI-HS6 contains the following items:

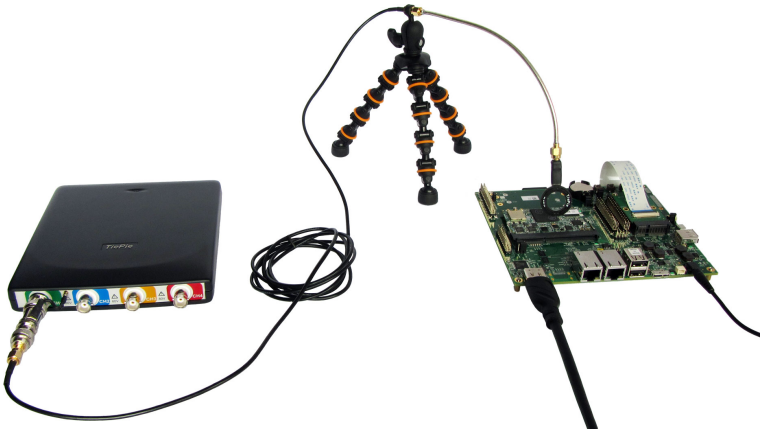
	TP-NFP-25 H field probe 25 mm diameter, female SMA connector
	TP-NFP-15 H field probe 15 mm diameter, female SMA connector
	TP-NFP-5 H field probe 9 mm diameter, female SMA connector
	TP-NFP-E9 E field probe 2 mm tip, female SMA connector
	TP-3P-15 tripod up to 18 cm high
	Antenna cable TP-BNC-SMA-200 flexible, 200 cm long, female SMA connector to BNC connector
	Antenna cable TP-SMA-20 semi flexible, 20 cm long, male SMA connector to male SMA connector
	Grounded 50 Ohm BNC terminator TP-BNC-T50G BNC to BNC, 5 cm ground lead with 2 mm banana plug
	TP-Wrench89 wrench 8 and 9 mm hex nut wrench

Connecting the probes

To connect a probe to the instrument with option E, first place the TP-BNC-T50G grounded terminator at the Ch1 input of the scope. When using a Handyscope HS6 DIFF-1000 or WiFiScope WS6 DIFF-1000, make sure to connect the extra ground lead to the grounding terminal next to the Ch1 input. When using a Handyscope HS6-1000 or WiFiScope WS6-1000, the extra ground lead is not required and can be left unconnected.

Next connect the BNC connector of the TP-BNC-SMA-200 flexible antenna cable to the grounded terminator. Insert the female SMA connector of the TP-BNC-SMA-200 through the ring of the TP-3P-15 tripod, from the side with the recessed hex shape.

Connect the male SMA connector of one end of the TP-SMA-20 semi flexible antenana cable to the flexible antenna cable. Use the supplied 8 mm wrench to tighten the nut to avoid the semi flexible cable to rotate. **Do not over tighten**, maximum torque is 0.3 - 0.6 Nm (3 - 5 in lbf). Finally, connect the required probe to the other end of the semi flexible antenna cable. Using the semi flexible cable and the tripod, the probe can be positioned at the exact location near the test subject.



In the Multi Channel software, select an EMI Quick Setup to setup the instrument and software properly for performing the EMI pre compliance test measurements.

Please note that when using the Handyscope HS6 DIFF-1000 or WiFiScope WS6 DIFF-1000, the EMI Quick Setups enable SafeGround for Channel 1, in order to measure single ended. However, due to the extra grounding connection, the SafeGround protection feature for channel 1 will be disabled, so there will be no protection against short circuits to ground on channel 1. For the other channels, the SafeGround protection remains available.

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