


Safety Precautions

Make sure to comply with the safety precautions mentioned hereafter when handling the probe.

YOKOGAWA ELECTRIC Co. assumes no responsibility for any consequences resulting from failure to comply with these safety precautions.

Also, read the User's Manual of the measuring instrument thoroughly so that you are fully aware of its specifications and handling, before starting to use the probe.


General definitions of safety symbols and markings

 This symbol indicates the risk of injury, death of personnel, or damage to the instrument. Be sure to refer to the corresponding explanation in the User's Manual.

WARNING This symbol calls attention to a procedure, practice, condition or the like, which, if not correctly performed or adhered to, could result in injury or death of personnel.

CAUTION This symbol calls attention to a procedure, practice, condition or the like, which, if not correctly performed or adhered to, could result in damage to or destruction of part of the product.

Make sure to comply with the following safety precautions in order to prevent accidents such as an electric shock which impose serious health risks to the user and damage to the instrument.

 **WARNING** • **Grounding of the measuring instrument**


Make sure to connect the protective grounding of the measuring instrument.

• **Earth cable of the probe**

Make sure to connect the earth cable to the ground (grounding potential).

• **Connecting the object of measurement**

Make sure to avoid an electric shock when connecting the probe to the object of measurement. Do not remove the probe from the measuring instrument after the object of measurement is connected.

 **CAUTION** • **Maximum input voltage**

Do not supply any voltages exceeding the maximum input voltage to the probe.

Abstract

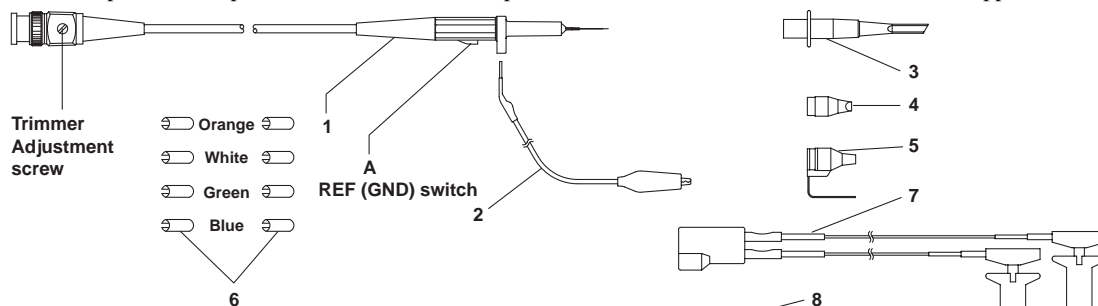
The model 700944 is a passive probe for the DL5140/DL5180.

It is necessary to use the passive probe in conjunction with a 1 MΩ BNC conversion adapter (model 700946).

Ground level can easily be found by pressing the A REF (GND) switch as shown in the figure below.

Composition

This probe is composed of the probe and its accessories. Optional accessories are available to meet various applications.



Standard Accessory

Name	PartNo.
1 Probe body	B9852FH
2 Ground lead	B9852BD
3 Pinchers tip	B9852BE
4 IC test tip	B9852BF
5 Ground attachment	B9852BG
6 Marker tip	B9852DH

Optional Accessory

Name	Model
7 Miniclip converter	700971
8 BNC adapter	700972
9 Ground lead	700973

Specifications

Item	Specifications	Conditions
Probe length	1.5 m	
Connector type	BNC	
Input resistance	10 M Ω ±2%	In conjunction with an 1 M Ω BNC adapter (model 700946)
Input capacitance	14 pF	
Attenuation ratio	1/10±2%	In conjunction with an 1 M Ω BNC adapter (model 700946)
Bandwidth (-3dB)	300 MHz	In conjunction with an 1 M Ω BNC adapter (model 700946)
Rise time	1.17 ns max.	In conjunction with an 1 M Ω BNC adapter (model 700946)
Max input voltage	500 V(DC+ACpeak)	Frequency of the AC needs to be less than 100 kHz.

Usage

An 1 M Ω BNC conversion adapter (Model 700946) is necessary to connect the passive probe with the DL5140/DL5180.

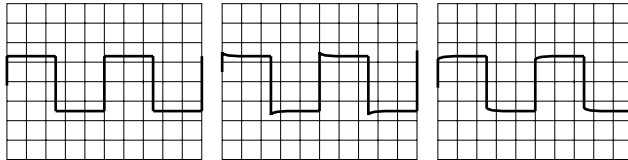
Use adequate attachment suitable for the point to measure.

Ground level is verified by pressing REF (GRD) switch.

Before using the probe, adjust its capacity by tuning the trimmer.

Adjustment

1. Connect the probe connector to the input of the DL5140/DL5180 through the medium of a 1 M Ω BNC conversion adapter (Model 700946), and connect the tip of the probe to the CAL signal output terminal.
2. Change the Time/Div and the V/Div to get the display shown below. Tune the trimmer to get the correct waveform.



**Correct
Waveform**

**Over
Compensation**

**Inadequate
Compensation**