


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.

● **Handling of the passive probe**
Do not touch the probe's input terminal or the probe itself with wet hands.

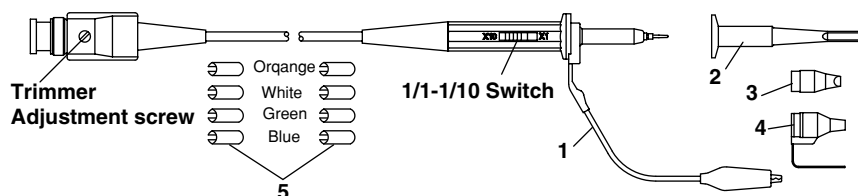
 **CAUTION** ● **Maximum input voltage**
Do not supply any voltages exceeding the maximum input voltage to the probe.

Abstract

The model 700998 is a 1 MΩ passive probe with switchable attenuation ratio of 1/10 and 1/1.

Composition

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

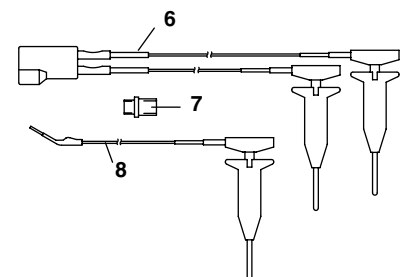


Standard Accessory

Name	PartNo.
1 Ground lead	B9852CW
2 Pinchers tip	B9852CX
3 IC test tip	B9852CY
4 Ground attachment	B9852CZ
5 Marker tip	B9852DH

Optional Accessory

Name	Model
6 Miniclip converter	B9852CR
7 BNC adapter	B9852CS
8 Ground lead	B9852CT



Specifications

Item	Specifications	Conditions
Probe length	1.5m	
Connector type	BNC	
Input resistance*	10M Ω \pm 2%	In conjunction with an oscilloscope with an input impedance of 1M Ω \pm 1%.
Input capacitance		
At attenuation ratio of 1/10:	Approx. 14 pF	In conjunction with an oscilloscope with an input impedance of 1M Ω \pm 1%.
At attenuation ratio of 1/1:	150 pF max.	Probe only
Attenuation ratio*	1/10 \pm 2%	In conjunction with an oscilloscope with an input impedance of 1M Ω \pm 1%.
Bandwidth		
At attenuation ratio of 1/10:	150MHz (-3 dB or less)	Subject to change depending on type of oscilloscope used.
At attenuation ratio of 1/1:	DC to 6MHz (-3 dB or less, typical**)	Subject to change depending on type of oscilloscope used and measurement conditions.
Rise time		
At attenuation ratio of 1/10:	2.4 ns max.	Subject to change depending on type of oscilloscope used.
At attenuation ratio of 1/1:	58 ns max. (typical**)	Subject to change depending on type of oscilloscope used and measurement conditions.
Max input voltage*	600V(DC+AC peak) or 424 Vrms	Frequency of the AC needs to be less than 100kHz.

* : In case of selecting the attenuation as 1/10.

** : Typical (or average) value; not guaranteed.

Complied Standard

IEC1010.1

IEC1010.2-031

Over Voltage Category II

Usage

Use adequate attachment suitable for the point to measure.

Before using the probe with attenuation ratio of 1/10, adjust its capacitance by tuning the trimmer.

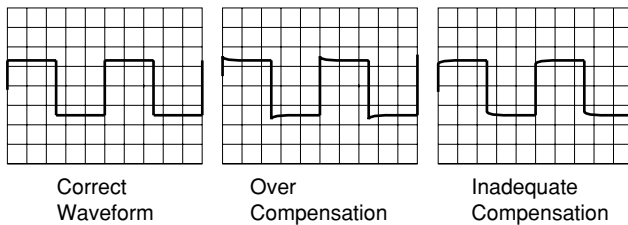
The attenuation can be selected using the 1/1-1/10 switch.

Make sure the maximum input voltage of oscilloscope when the attenuation is selected as 1/1.

Adjustment

(1) Connect the probe connector to the input of the oscilloscope, 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. And tune the trimmer to get the correct waveform.



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