

The 700987 Isolation Logic Probe is a logic probe applied to the isolated input of the ScopeCorder series. Make sure to comply with the following safety precautions. Not complying might result in injury or death.



## WARNING

Before using the probe, be sure to also read the ScopeCorder's or the logic input module's manual as it contains precautionary information necessary for using the probe.



## CAUTION

- Applying a voltage exceeding the following voltage may cause damage to the isolation logic probe, the ScopeCorder, or the logic input module. If the frequency exceeds 1 kHz, damage may occur even below this voltage.  
Maximum input voltage (at a frequency of 1 kHz or less): 250 Vrms  
(However, AC 350 Vpeak or less, DC 250 V or less)
- The input terminals of the isolation logic probe are isolated. Also, each input terminal of the probe is isolated from the ScopeCorder or the logic input module.
- Make sure to turn off the power of the ScopeCorder when connecting or disconnecting the 26-pin connector to the logic input terminal.
- Do not stack isolation logic probes when using. Also, take enough space around the probes to prevent the temperature inside the probes from rising.

### French



## AVERTISSEMENT

Avant d'utiliser la sonde, assurez-vous de lire également le manuel du ScopeCorder ou du module d'entrée logique car il contient les informations de précaution nécessaires à l'utilisation de la sonde.



## ATTENTION

- L'application d'une tension supérieure à la tension suivante peut endommager la sonde logique d'isolement, le ScopeCorder ou le module d'entrée logique. Si la fréquence dépasse 1 kHz, des dommages peuvent survenir même en dessous de cette tension.  
Tension d'entrée maximale (à une fréquence de 1 kHz ou moins) 250 Vrms  
(Cependant, AC 350 Vpeak ou moins, DC 250 V ou moins)
- Les bornes d'entrée de la sonde logique d'isolement sont isolées. De plus, chaque borne d'entrée de la sonde est isolée du ScopeCorder ou du module d'entrée logique.
- Assurez-vous de couper l'alimentation du ScopeCorder lors de la connexion ou de la déconnexion du connecteur à 26 broches à la borne d'entrée logique.
- N'empilez pas les sondes logiques d'isolement lors de l'utilisation. En outre, prenez suffisamment d'espace autour des sondes pour empêcher la température à l'intérieur des sondes d'augmenter.

### Logic Input Terminals

Connect the 26-pin connector of the probe cable on the side with the clamp filter (with ferrite core, part number A1190MN) to one of the two logic input terminals on the ScopeCorder or the logic input module (model 720230).

### Measurement Leads

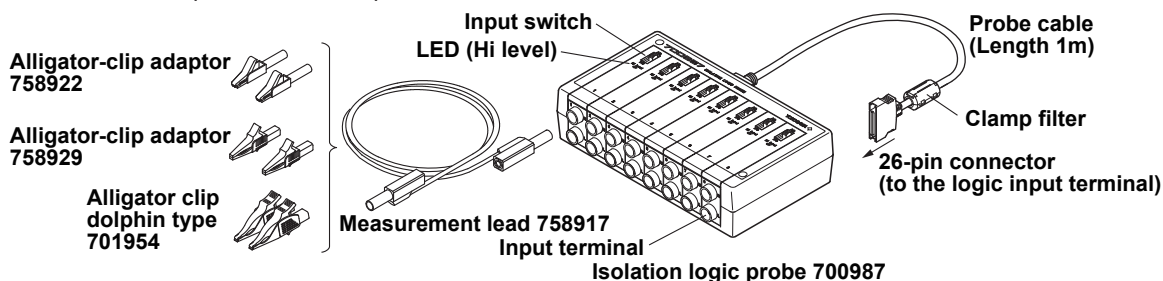
Use the following measurement lead and adapters sold separately to connect the probe to the device under measurement. Do not alter the probe or measurement lead. Doing so may cause it from satisfying the specifications.

- Measurement lead 758917 (rated 1000 Vrms CAT II)
- Alligator-clip adapter 758922 (rated 300 Vrms), 758929 (1000 Vrms) or alligator clip dolphin type 701954 (1000 Vrms)



## Connecting the Isolation Logic Probe

1. Connect the measurement leads to the input terminals of the isolation logic probe.
2. Set the input switch ("AC" / "DC", see specifications below for details).
3. Turn OFF the power of the ScopeCorder.
4. Connect the 26-pin connector to the logic input terminal.
5. Turn ON the power of the ScopeCorder.



## Specifications

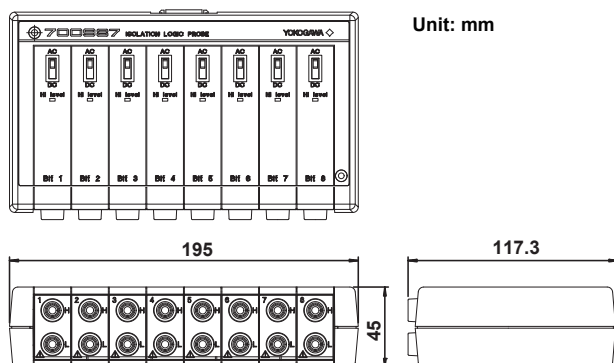
Item	Specifications
Number of inputs	8
Input format	Isolated (all bits are isolated)
Input connector	Safety terminal type (for banana plug) × 8
Input switching	AC/DC input can be switched for each bit.
Input signal display	Hi/Lo level is detected for each bit, and LED lights when Hi.
Threshold level	During DC input 6 VDC ± 50% (Hi level: 10 to 250 VDC, Lo level: 0 to 3 VDC) During AC input 50 VAC ± 50% (Hi level: 80 to 250 VAC, Lo level: 0 to 20 VAC) (50/60 Hz)
Response time	During DC input within 1 ms (typical value <sup>1</sup> ) During AC input within 20 ms (typical value <sup>1</sup> )
Input impedance	Approx. 100 kΩ
Maximum input voltage	250 Vrms <sup>2</sup> CAT II (across H and L of each bit)
Maximum allowable common mode voltage	250 Vrms <sup>2</sup> CAT II (across input terminal H or L and earth)
Maximum allowable voltage between bits	250 Vrms <sup>2</sup> CAT II
Withstand voltage	2000 VAC for 1 minute (across input terminal and earth)
Insulation resistance	500 VDC, 10 MΩ or more (across input terminal and earth)
Fuse <sup>3</sup>	Location H side of input terminal Maximum rated voltage 250 V Maximum rated current 50 mA Type Time lag Standard VDE/SEMKO approved

1 Typical values are typical or average values and are not strictly guaranteed.

2 AC 350 Vpeak, DC 250 V (at a frequency of 1 kHz or less)

3 The fuses used in the probe are all inside the case, and cannot be replaced by the user. If you suspect the fuse is blown, please contact your nearest YOKOGAWA dealer.

## External Dimensions



The dimensional tolerance is 3% unless otherwise specified (however, 0.3 mm for less than 10 mm).