

Thank you for purchasing the 99031 1 to 5V Adapter Set.  
Before using this product, thoroughly read this manual to understand how to use it properly.

Store this manual in an easily accessible place for quick reference.

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**YOKOGAWA** ◆

IM 99031-EN  
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Use this 1 to 5V Adapter Set to convert a 4 to 20 mA current signal to a 1 to 5 V voltage signal.

### ⚠ CAUTION

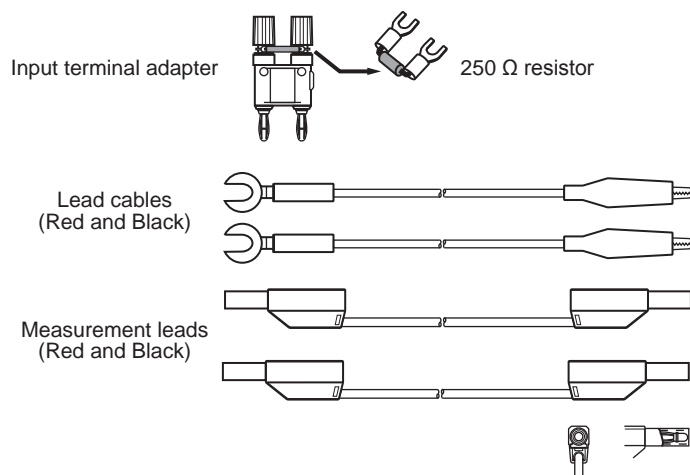
- To use this adapter safely, be sure to read user's manual of the measuring instrument that you intend to connect it to.
- This adapter is only meant to be used with the following instrument. Do not connect it to other instruments.

Applicable instrument: CA450 Process Multimeter

### ■ Checking the Contents of the Package

After you open the package, check for the following.  
If the wrong items have been delivered, if items are missing, or if there is a problem with the appearance of the items, contact your nearest YOKOGAWA dealer.

- Input terminal adapter (with 250  $\Omega$  resistor)
- Lead cables (one pair of red and black)
- Measurement leads (one pair of red and black)



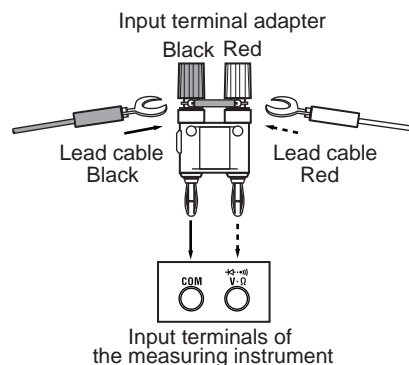
### ■ Specifications

Standard resistance:	250 $\Omega$ , 0.25 W, 0.1%, 25 ppm/ $^{\circ}\text{C}$
Lead cable length:	Approx. 1700 mm
Measurement lead length:	Approx. 750 mm

### ■ Measurement (Input)

The adapter receives a 4 to 20 mA current signal and converts it to a 1 to 5 V voltage signal.  
Turn the measuring instrument's function switch to the DC voltage measurement position (  $\overline{\text{V}}$  ).

1. Connect the red and black lead cables to the red and black parts of the input terminal adapter (above the 250  $\Omega$  resistor). (Fasten the terminal screws tightly.)
2. Connect the input terminal adapter with the lead cables attached to it to the input terminals of the measuring instrument.
3. Connect the alligator clips of the lead cables to the circuit under measurement.



### ■ Output

The adapter converts a 4 to 20 mA constant current output into a 1 to 5 V voltage.

Turn the measuring instrument's function switch to the SOURCE mode constant output position (  $\overline{\text{mA}}$  ).

1. Connect the red and black lead cables to the red and black parts of the input terminal adapter (above the 250  $\Omega$  resistor). (Fasten the terminal screws tightly.)
2. Connect the input terminal adapter with the lead cables attached to it to the red and black measurement leads.
3. Connect the other measurement lead (on the opposite side) to the output terminals (SOURCE) of the measuring instrument.
4. Connect the alligator clips of the lead cables to the circuit under inspection.

