

Instruction Manual of Signal Transducer  
MODEL:7541,7542

### 1. GENERAL

These Models are Isolated Signal Transducers which convert AC current and AC voltage to the desired output of DC current or DC voltage, by means of effective value rectification (or effective value calculation) circuit. Voltage input of Model 7541 is, however, non-isolated.

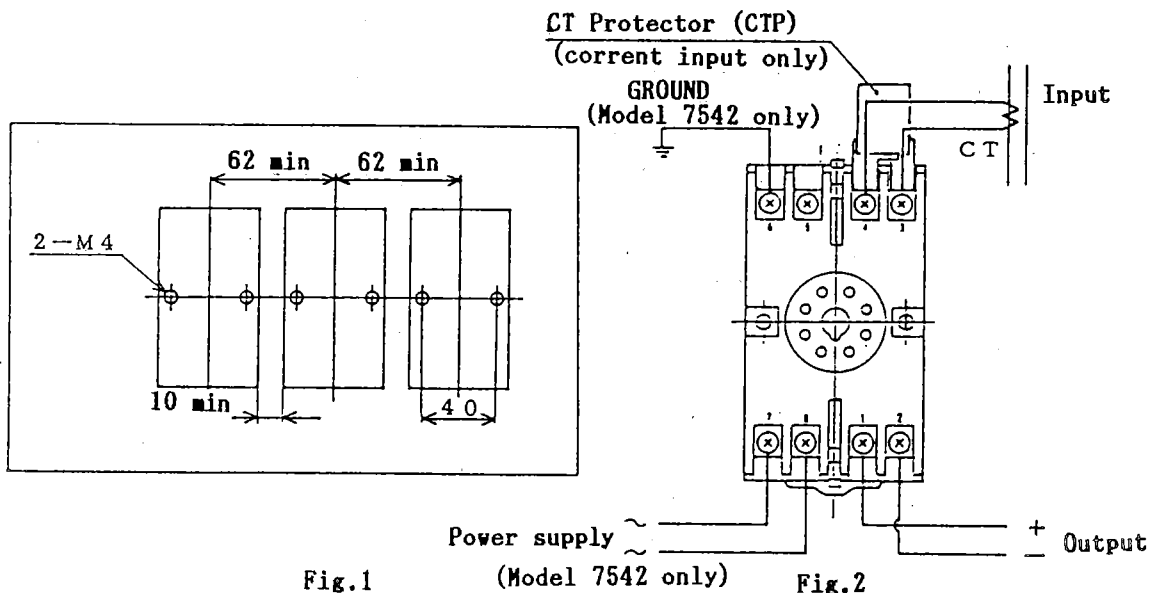
Conversion of AC to DC is, for Model 7541, made by effective value rectification circuit (no auxiliary power source necessitated) and for Model 7542, made by effective value calculation circuit (with auxiliary power source).

Mounting onto DIN standard rail can easily be done by plug-in type case, and which remarkably saves the installation time and labour.

### 2. MOUNTING METHOD

#### 1) Mounting

Fix the attached terminal blocks by M4 screws. In case of multiple installation in series, keep the clearance in between transducers as shown at Fig.1.



#### 2) Connections

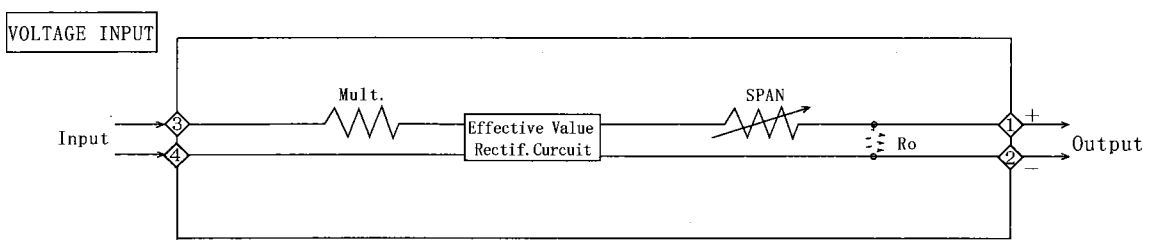
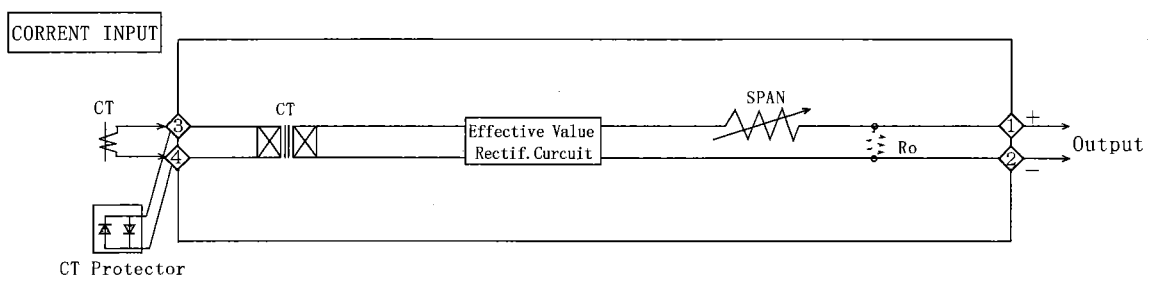
1. Screws of terminal blocks of those transducers are M3.5. Make sure the correct and firm wirings by means of clamp type terminal etc.
2. Make the connections as per the connection diagram at Fig.2 and use the cable conformable to the rated capacity of the circuit. For current input models only, CT Protector is attached. It prevents CT from being damaged to connect CT protector between input terminal (3) - (4) of terminal blocks, because the measuring line is not open even in case the transducer is removed from the terminal blocks during measurement.
3. Power on the transducer after confirming the rated values, connections and etc. of input, output signals and power source voltage.

#### 3. Adjustment

Transducers are adjusted within tolerable error at delivery from factory, but if the calibration becomes necessary, make the adjustment with ZERO (not provided for Model 7541) and SPAN volumes on the front. Adjustable ranges are about +/-3% for ZERO and about +/-5% for SPAN.

4. Block Diagram

● 7 5 4 1



● 7 5 4 2

