



# OPERATING PRINCIPLES PRESSURE SENSORS

## ■ Thin-film type pressure sensors

### <Operation>

1. The structure of our thin film pressure sensor is that insulation film is formed on the metal diaphragm, and thin film gauges are arranged on the insulation film.
3. Four thin film resistors, forming a Wheatstone bridge, is driven by constant voltage and produce output voltage in proportionate to the applied pressure.

2. If pressure is applied to the sensor, the metal diaphragm is altered. In turn, the thin film gauge on the metal diaphragm is altered and causes a change in its resistance.

### <Output>

Output voltage is produced in proportion to the applied voltage. It is about 30 mV if rated pressure is applied.

