1.

|  |  |
| --- | --- |
| http://ngsir.netfirms.com/capplets/meter/insertE.png | http://ngsir.netfirms.com/capplets/meter/shunt.png |

2. Click or drag the part circled in red below will alter the value or the state of the corresponding element.



3. "f.s.d.V. " stands for "full-scale-deflection voltage", it is the maximum voltage the meter can measure without the aid of an external resistor. The f.s.d.I. is f.s.d.V./R.

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An ammeter can be converted from a galvanometer of small full-scale-deflection current by connecting a small resistor in parallel with it. This small resistor is known as a *shunt.* A large portion of the current being measured will then flow through the shunt.

A voltmeter can be converted from a galvanometer of small full-scale-deflection voltage by connecting a large resistor in series with it. This large resistor is known as a *multiplier.* A large portion of the voltage being measured will then drop across the multiplier. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_