Given Information,

Full range voltage of the Instrument (V) = 50V

Full scale Deflection of the current (Im) or (I_{fsd}) = 200μA = 200×10^{-6} A

Internal Resistance of the coil (R_m) = 100Ω

We know that,

$$V = I_m (R_s + R_m)$$

$$\Rightarrow R_s + R_m = \frac{V}{I_m}$$

$$\Rightarrow R_s = \frac{V}{I_m} - R_m$$

Here, R_s = Multiplier Resistance

So,

$$R_s = \frac{50}{200 \times 10^{-6}} - 100$$

$$= 249.9\ k\Omega$$