

1. Mechanical specification

NO.	Items	Specifications
1	Movement	Internal magnet coiling movement (Moving coil)
2	Dimension	See attached drawing
3	Pointer material	Zinc silver strip
	Pointer color	White
	Pointer direction	From left to right
	Pointer length	70 +/- 1 mm from center of movement
	Pointer width	0.45 +/- 0.05 mm
4	Magnet	Alnico sintering magnet
5	Coil	UEW
6	Meter Direction	Usage : Vertical
7	Lamp	4*White LED 3.0V

2. Electrical specification

Test Environment: Temperature 20°C, Humidity 70%

NO.	Items	Specifications	Standard
1	Current Sensitivity (at point of calibration)	Direct current required to deflect the pointer to the specified point on scale	
2	Ref. Max. current (at fullscale deflection)	Direct current required to deflect the pointer to fullscale	1000uA ± 10 %
3	DC internal resistance		100Ω ± 10 %

4	Insulation Resistance	At 500V D.C 1 min	50MΩ or more
5	Friction	The current applied to meter increase to fullscale deflection. Then decrease gradually until it reaches mechanical 'zero'. The tolerance at zero position must be within	± 1mm
6	Zero Position	When no current, the tolerance of pointer tip overlapping meter's zero position must be within	± 1mm
7	Balance - Effect of user position (Including friction)	Rotate meter 90 degree clockwise from standard user position. Tolerance (of the pointer) from the mechanical zero position shall be measured within	±1mm
		Rotate meter 90 degree counter-clockwise (reverse the above). The acceptable pointer moving tolerance is within	
8	Pointer stick at meter end	3 time of Max.current shall be applied to the meter and then current shall be reduced to 1/2 of the Max.current sensitivity in 7 seconds. Meter pointer shall bounce back to approx. 1/2 of scale and no serious pointer stick at meter end when current is red	Pointer bounce shall not exceed 1/2 of scale
9	Movement of pointer	Current shall be applied to the meter to Max. current sensitivity in 5 seconds with a straight line change ratio. Then applied current shall be reduced to zero in 5 seconds with a straight line change ratio.	The pointer shall move smoothly and shall not pause or malfunction