

**UTTAR & DAKSHIN HARYANA BIJLI VITRAN NIGAM**



**Specification No. CSC-155/DH/UH/P&D/2016-17**

**TECHNICAL SPECIFICATIONS**

**FOR**

**Digital Clamp Meter**

**Superintending Engineer/P&D,  
DHBVN, Hisar**

**Superintending Engineer/P&D  
-cum- Member Secretary  
UHBVN, Panchkula**

**Issue of the Month: November 2016**



**Technical Specification of Digital CLAMP METER**

Digital Clamp meter with voltage range up to 600V & current range 600A. It should have auto ranging facility, battery powered and with backlit display. Continuity (with buzzer) and resistance measurement should also be possible. It should have a large jaw to allow conductor size of 35 to 40 mm.

**Technical Specification:-**

**AC CURRENT**

- Ranges- 400A, 600A
- Resolution- 0,1A 50Hz - 60Hz
- Accuracy- 0±(1.9% rdg + 5d), 0-400A  
±(2.9% rdg + 5d), 400-600A
- Conversion type- Average sensing RMS indicating

**AC Voltage**

- Ranges - 400A, 600A
- Resolution- 0.1V in the 400V range
- Accuracy- ±(1.2% rdg + 5d), 40Hz-500Hz
- Input Impedance- 10 MW//<100pF
- Protection- AC 850V rms
- Conversion type- Average sensing RMS indicator

**RESISTANCE**

- Ranges- 4Ω, 40kΩ
- Resolution- 1Ω in the 4kΩ range
- Accuracy- ±(2% rdg +9d)
- Overload Protection- 500V RMS

**CONTINUITY TEST**


- Threshold- <200Ω approx.
- Indicator- 2kHz tone buzzer





## GENERAL

Display-	4000 count LCD
Measuring rate times per second -	4 T/Sec
Position error	
Output voltage	AC/DC, 10mV/A in 100A, 1mV/A in 600A
Type of Sensing-	Current transformer
Over range indicator-	"OL"
Low battery indicator-	low battery
Auto Power (off)-	10 mins non use
Operating temperature-	0°C - 45°C, <75% RH
Storage temperature-	(0°C - 60°C, <80% RH) 0.2 x (spec. acc'y)/°C, <18°C
Temperature coefficient-	>28°C
Shock proof-	4 feet drop
Safety:	Designed to IEC1010-2-032- 600V Cat. II to Earth
Maximum conductor size-	Dia. 40mm
Maximum Jaw Opening-	42mm
Power Requirement-	9V PP3 (IEC 6LR61)-
Battery life(Alkaline)-	200 hrs
Weight-400g max	400g max.

This issues with the approval of CSC members as decided in their meeting held on 12.08.2016.

  
25/11/16  
Superintending Engineer/P&D  
-cum-Member Secretary

UHBVN, Panchkula

  
  
25/11