



VITAL ENGINEERING INSTRUMENTS

Reg Office : Plot B103 Darshanam Antica Residency, Opp Heavy Water Tank, Danteshwar-04, Vadodara, GUJARAT.

Workshop : 78/3/G Makarpura Industrial Estate, Vadodara-09, GUJARAT

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TECHNICAL DATASHEET

Portable Earth Clamp with Visual Earth Status Confirmation (GREEN & RED INDICATION)



This is Specialty clamp intrinsically safe with visual indication on the clamp itself.

The clamps are made of Pure SS304 Clamps with quality spring pressure and with 20.00 mm Jaw opening diameter to earth hazardous operations.

It continuously monitors the resistance for >10 ohms. The tips are made of tungsten carbide to penetrate through dust, coating, paint etc. and make a positive connection with the object.

Operational Indications

- Picture 1 : DECVI Assembly with Standard 5 Metre Straight Cable
- Picture 2 : DECVI Assembly connected to metals like Drums, Tankers, and Mobile Equipments etc.
Green Indication on Positive Contact of Potential Hazardous Equipment with Earth.
- Picture 3 : DECVI Assembly connected to metals like Drums, Tankers, and Mobile Equipments etc.
RED Indication on loss of Positive Contact of Potential Hazardous Equipment with Earth.



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Technical Parameters

Electrical Parameters

Supply Input Voltage	:	2 Nos AA Battery Cells
Contact Sensing Voltage & Current:	:	1.2 Volts with 2mA
Cables	:	Standards 05 Metre 2 Core (14*0.36 Cable)
Battery(Low)	:	Indicated by low intensity in LED'S
Battery Replacement	:	To be Carried out in safe area by removing end screw
cap Safety & Construction	:	Intrinsically Safe & Flame Proof
Electronic Circuit	:	Magnetically Operated reed switch concealed in SS tube I.C to provide low energy level
Certification	:	IS/IEC 60079:0, IS/IEC 60079:11, (Ex d & Ex I)
Operation	:	GREEN Indication (Healthy Earth Condition) RED Indication (Unhealthy Earth Condition) 1) > 10 ohms (Unhealthy Earth) 2) When Loss of Earth Continuity

Mechanical Parameters

Clamp & Cable	:	Copper Coiled Teflon coated & UV protected Cable
Indicative Clamp	:	Heavy Duty SS304 Earthing Clamp with Tungsten Carbide tips Length: 200mm, Width: 50mm, Jaw Opening: 20mm, Contact Points: 2 Nos of Tungsten Carbide tips.
Ground Clamp	:	Length: 150mm, Width : 40mm, Jaw Opening :10mm

Applications

- 1) Road Tanker Earth Status Monitoring.
- 2) Reactors
- 3) Hazardous Equipments
- 4) Mobile Equipments, etc...