



TECHNICAL SPECIFICATIONS

STATIC CHARGE EARTHING RELAY (DUAL PROBE).

- Model** : ASHE SGR-250.
Type : Microcontroller based Intrinsically Safe Earthing Relay for Static Charge Grounding of vehicles during loading / unloading operations in hazardous area locations.
Inputs : 1. Physical-Earth point at loading area (Earth Pit).
 2. Probe #1 from Vehicle chassis.
 3. Probe #2 from Loading Arm (Bonding).
Resistance Bandwidth : 1 to 8 Ohms (digitally selectable).
Control Logic : Relay to energize when Vehicle Chassis AND Loading Arm are both successfully earthed.
Indications : Two LEDs, as under
 >> Green LED indicating successful grounding EARTH OK.
 >> Red LED indicating EARTH OPEN condition.
Output : Two Control Relays with potential free changeover contacts.
Contact Rating : 10 Ampere @ 230 V AC.
Power Supply : 80 to 270 V AC, 50/60 Hz universal power supply.
SC Protection : Fuses (internal).
Cable-Clamp assembly : Two 5 metre extended 4 sq mm Cable with crocodile clamps (Red & Black).
Intrinsic Safety : Intrinsically Safe Ex-i certified by CIMFR Dhanbad.
Ingress Protection : IP-65 certified by CIMFR.
Enclosure : Explosion-proof Ex-d Aluminium Alloy LM6 Die-cast enclosure.
Execution : Explosion-proof execution, suitable for Zone 1, Gas Groups IIA/IIB hazardous areas.

TERMINAL DIAGRAM

1	2	3	4	5	6	7	8	9	10	11
L	N	E	X	C	NO	C	NO	P1	E2	P2
90-270 VAC, 50/60 Hz				RELAY - 1		RELAY - 2		Veh. Probe	Earth Pit	Bldg Probe

TERMINAL DETAILS (DUAL PROBE)

TERMINAL NO.	NOTATION	DETAILS
1	L	90-270 VAC, 50/60 Hz AC Power Supply
2	N	
3	E	
4	X	No Connection
5	C	RELAY - 1
6	NO	
7	C	RELAY-2
8	NO	
9	P1	Vehicle Probe
10	E2	Earth Pit
11	P2	Bonding Probe

NOTE: The Response Point for the Line Impedance of the Earthing Relay is factory set for 8 Ohm. i.e., the instrument will consider Line Resistance less than 8 Ohms as Potential Parity. This setting is configurable digitally.

TECHNICAL SPECIFICATIONS FOR ENCLOSURE

- Catalogue No.** : PEW/CP/036
Certificate No. : CIMFR/TC/SR/1130 Dt. 30 Nov. 2012
Type Of Protection : Flame proof (Explosion proof) Ex-d
Area Classification : Zone 1 & 2
Gas Groups : IIB
IP Protection : IP 65
Apparatus Standard : IS/IEC 60079-1: 2007 & IS/IEC 60529: 2001
Material : Cast Aluminium Alloy LM-6
Finish : Light Grey Shade 631 of IS: 5
Gasket : Neoprene
Hardware : Flamepath joint by stainless steel and all other mild steel Zinc plated.
Mounting : Wall mounting with the help of 4nos bolts of size M10
Cable Entry Size / No. : Bottom - 3/4"ET - 5 nos.
Earthing : External 2 nos. & Internal 1 no.

NOTES: All Dimensions In mm

Customer	TITLE	TERMINAL AND DIMENSIONAL DRAWING		
PO. No.	PRODUCT	STATIC CHARGE EARTHING RELAY (DUAL PROBE).		
Quantity	MODEL	SGR-250		
Tag Nos.			DOC NO. :	ACPL/GA/SGR-250
	Encl. Mfr. PROMPT ENGINEERING PVT. LTD.	DATE	15-03-18	SHEET : 1 of 1