

177/4, G.I.D.C. Estate, Phase-I, Naroda  
Ahmedabad - 382330. Gujarat, India.  
Phone : 079-22820166, Fax : 079-22820169  
URL : www.celtronics.in  
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sales.celtronics@gmail.com  
Mfg. of : Electronic & Electrical  
Power Control & HV Equipments



## TEST CERTIFICATE

Certificate No.: CEL/316R/23-24

Test Date : 12/10/2023

Validity Date : 12/10/2024

**1. Test requested by** : M/s. STANVAC CHEMICALS INDIA LTD.,  
Plot 551, Sector-37, Pace City-II,  
Gurugram, Haryana-122001

### **2. Details of the Equipment**

a) Manufactured by : PCWI  
b) Nomenclature : HOLIDAY DETECTOR.  
c) Brand Name : Compac  
d) Year of Manufacture : NA  
e) Model / Type No. : DC 30  
f) Serial No : 0000009294

### **3. Test Specification**

Input Voltage : 12 V DC (Battery / Power Supply).  
Output Voltage : Variable 0 KV to 30 KV.  
Output Waveform : Continuous DC Voltage.  
Sensitivity : Spark generated at the holiday/weak point  
Detection : Audible buzzer and visual lamp indication for fault detection.  
Protection : Fuse Protection on the Input.  
: Short Circuit Protection on the Output.  
Meter : Digital / Moving coil Meter to Indicate Output in Kilo Volts

**4. Test Purpose** : Performance



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Product : Holiday Detector	Serial No: 0000009294	Cert. No. : CEL/316R/23-23
Model No.: DC 30	Capacity : 30 KV	Test Date: 12/10/2023

### 1. Sensitivity Test

- Testing Rig : Metallic plate/pipe 8" diameter with artificial fault created.  
 Insulation Coating : The surface is coated with paint/coal tar covered by craft paper.  
 Insulation Thickness : 1000 micron/mm of total insulation on the metallic plate/pipe.  
 Grounding : The plate/pipe was properly grounded to earth.  
 Earthing Spring : Connected to the Earth Terminal of the Holiday Detector  
 HV Handle/Brush : Connected to the HV Terminal of the Holiday Detector.  
 Pipeline Spring : Connected to the High Voltage Handle and put around the pipeline.  
 Output KV setting : 5.5 KV set on the Holiday Detector.

	Test Conducted	Requirement	Observation
1	The HV Brush/Spring was on good insulated surface	No Buzzer or Lamp signal should come up	Found OK / <del>Not OK</del>
2	The HV Brush/Spring was on a faulty point	Buzzer and Lamp should give signal	Found OK / <del>Not OK</del>
3	The HV Brush/Spring was oscillated over the faulty point from either direction	Buzzer and Lamp should give signal every time the Spring passes over the fault	Found OK / <del>Not OK</del>
4	The HV Brush/Spring was brought near the faulty point by about 5 mm	Buzzer and Lamp should give signal	Found OK / <del>Not OK</del>
5	The HV Brush/Spring was shorted to the naked Pipe	Buzzer and Lamp should give continuous signal	Found OK / <del>Not OK</del>



*[Handwritten Signature]*

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## 2. Meter Calibration.

The following readings were taken for calibration of the Output KV meter

Sr. No.	Panel Meter Reading in KV	Standard Meter Reading in KV	Error in KV	Percentage Error
1	1.0	0.97	+0.03	+3.00 %
2	2.0	1.95	+0.05	+2.50 %
3	5.0	4.90	+0.10	+2.00 %
4	10.0	9.85	+0.15	+1.50 %
5	20.0	19.65	+0.35	+1.75 %
6	30.0	29.55	+0.45	+1.50 %

The Standard Meter Reading was taken on Aplab Make, Single Trace Oscilloscope, Model 3030, Sr. No. 785/1342 calibrated vide Calibration Certificate No. HOIL-E-09-23-1088-01 dated 04-09-2023 with Calibration Due on 04-09-2024 from Hariom Instru-Labs, Ahmedabad, having direct Traceability with National / International Standard.

## 3. Comments.

The Holiday Detector is / ~~is not~~ giving satisfactory performance and so is / ~~is not~~ suitable for detection of fault in insulation on conducting surface.

## 4. Note.

**This Certificate is valid only if the Seal is not broken in the Tested Instrument and will be valid for a period of twelve months from the date of this Certificate.**

For CONTINENTAL ELECTRONICS,



(M.G. PILLAI)