

## Temperature Test Report

### Description of Sample:

Product : Medium Alligator Clip ( rated 1000V / 10A )  
Type : UT-B02, UT-B03, UT-B04  
Submittor: Unicable Co., Ltd  
5F, No. 111-33, Sec.4, San Ho Road, San Chung City, Taipei Hsien, Taiwan( R.O.C. )

Sample received on : June 2 ,2008

The device has been tested according to Clause 9 of IEC61010-031 : 2002.


Test results are valid only for the test sample. The report can only be copied in full. Partial duplication should have the authorization from the test lab.

All three types are completely the same except the construction of the jack at the end of the clip.  
Type UT-B02 is with M4 threaded jack , UT-B03 is with 2mm jack, UT-B04 is with 4mm jack.  
UT-B04 is selected as the representative for the test.

Name and address of the testing laboratory :

Universal Testing Inc.

2F, No.13, Lane 28, Sec.1, Huanshan Rd., NeiHu, Taipei, Taiwan, R.O.C.

Prepared by :   
Signature  
Livy Xiao  
Engineer

June 9, 2008  
Date

Reviewed by :   
Signature  
Elven Chang  
Supervisor

June 9, 2008  
Date



**1. Preconditioning the Tested Samples**

Samples were tested as received

**2. Test Procedures**

- 1) A test probe that fits the clip was inserted to the clip jack.
- 2) A power source that generate 1000V ac voltage was connected to the clip and the probe.
- 3) A hybrid recorder with thermo couplers was used to measure the temperature of the clip in several accessible locations as below.
- 4) Use a current source to flow 10A ac current to the test clip.
- 5) Repeat Item 3 above.

**4. Result**

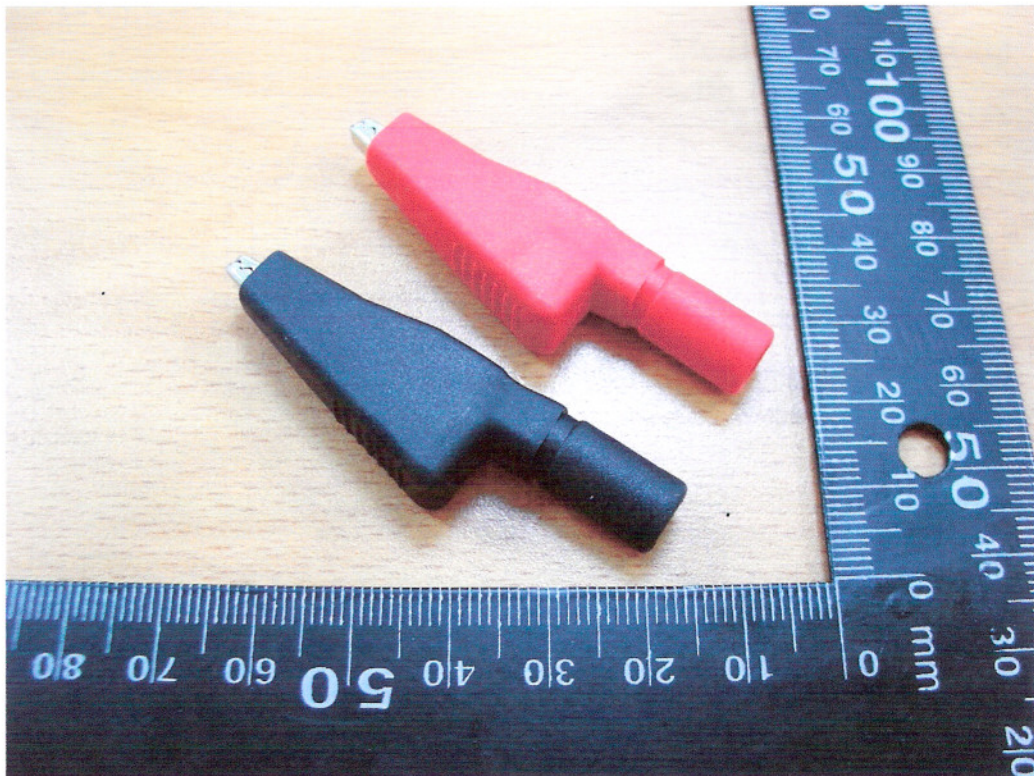
Condition A : Loaded with 1000 Vac , Test duration : 2 hr 03 min  
 Condition B : Loaded with 10 Aac , Test duration : 2 hr 02 min

Thermocouple Location	Max. Temp. °C ( at actual room ambient)		Max. Temp. °C (after corrected to 40 °C max operating ambient)		Limit ( °C )	Verdict
	A	B	A	B		
1.Clip Connector	27.4	44.0	41.6	55.4	70	Passed
2.Clip cover over the indicator	25.9	34.2	40.1	45.6	70	Passed
3.Ambient	25.8	28.6	40	40	--	--

**5. Test Equipment**

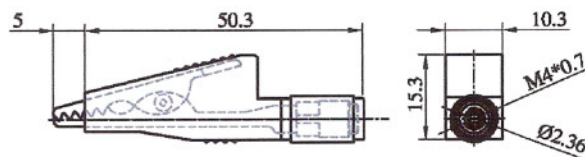
Description	Manufacturer	Type	Serial No.	Last Cal.	Next Cal.
Hybrid Recorder	Yokogawa	DR130	7700HB169	2008.02.20	2009.02.19

Attachment Photo of the Test Clip



Unicable

Model UT-B02  
Medium Alligator Clip  
with M4 Threaded Jack

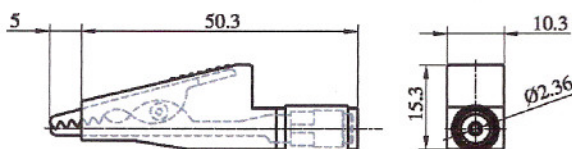


Material  
Alligator Contacts : Nickel Plated Steel  
Threaded Insert : Nickel Plated Brass  
Insulation : PVC  
Spring : Steel



## Unicable

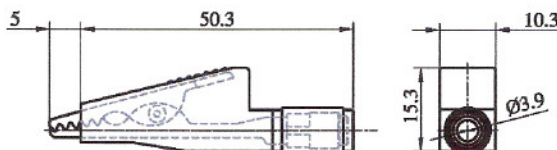
Model UT-B03  
Medium Alligator Clip  
with 2mm Jack



Material  
Alligator Contacts : Nickel Plated Steel  
Threaded Insert : Nickel Plated Brass  
Insulation : PVC  
Spring : Steel

## Unicable

Model UT-B04  
Medium Alligator Clip  
with 4mm Jack



Material  
Alligator Contacts : Nickel Plated Steel  
Threaded Insert : Nickel Plated Brass  
Insulation : PVC  
Spring : Steel