

## NEW ISA WEB SITE

ISA new web site is now available. The stylish new graphics and the content organization is designed to allow the visitor to look for and get the information requested easily and quicker. Please, visit it and let us know your opinion!  
[www.isatest.com](http://www.isatest.com)

## NEW TEST FUNCTIONALITIES FOR CIRCUIT BREAKER ANALYZER CBA 2000

ISA is continuously improving the circuit breaker analyzer applications available on CBA 2000. The latest test functionalities implemented on CBA 2000 and CBA 1000 are:

- Slow motion test
- First trip test
- Switch Sync breaker test
- Motion analysis with digital transducers



### The four new features on CBA 2000 are:

#### SLOW MOTION TEST:

this test is a tool to accurately measure and adjust the contact travel during breaker maintenance. The circuit-breaker contact motion is slowly jacked through the stroke by manual operation.

#### DIGITAL TRANSDUCERS:

This new feature allows to use up to three digital transducer for motion analysis tests. It can use both type differential (24 V) output, or RS422 interface.

Test result is the same movement versus time diagram as with linear transducers.

#### FIRST TRIP TEST:

A very important measurement of the CB behaviour is the measurement of the time response of the CB after a long time of service. This test allows to measure the time response of circuit breaker keeping the circuit breaker in service and measuring the time by the three secondary currents of CT's.

#### SWITCH SYNC BREAKER TEST:

The purpose of the switch synchronization circuit breakers is to minimize the inrush current into the compensation capacitors. The CB is in service; the measurement of the close timing is performed on the circulating current. With this type of CB's it is therefore necessary to measure the timing of the contact closing with respect to the corresponding voltage zero crossing.

**A dedicated and exhaustive application note will be available on our web site.**

## MCS – ON LINE SURGE ARRESTORS DIAGNOSTIC

ISA MCS- Substation Continuous monitoring it is a system to be installed in the substation, for the continuous monitoring of key apparatus as: CB's, CT's, VT's, MOV's. Already selected by Terna, the second largest national grid in the world, it allows the monitoring of selected key parameters.

This month we would like to talk about the on line diagnostic applicable on **Metal Oxide Surge Arresters**. The MOV's Condition Monitor Module checks the efficiency of the MOV's according to standard IEC 60099-5 A1 ED. 1.0 Diagnostic indicators of metal-oxide surge arresters in service. The Surge Arresters Condition Monitor acquires the following information:

- The value of the total current and of the 3rd harmonic current; then it checks the values against the program med thresholds, and raises an alarm when the maximum programmed threshold is surpassed.
- The number of discharges, along with the timing of the events.

Please, contact us if you wish to get additional information at [isa@isatest.com](mailto:isa@isatest.com)





### RELAYS TEST SET DRTS 6 IEC61850 COMMUNICATION PROTOCOL

Relays test set DRTS 6 with IEC61850 communication protocol is now 1 year old and it's giving satisfactory results among our customers. This tool has now been tested with other protections thanks to ANSI 87 module performing automatic tests on differentials relays. This module is available on our powerful software TDMS. Even if the setting of the parameters of these SW module is quite easy, the operator can have some doubts about the correspondences between the relay parameters and the ANSI 87 parameters. We have just developed a **SW interface between the differential functions PDIF-87G (Generator differential protection) and PDIF-87T (Transformer differential protection) of the ABB IED's of the family 670.**

The SW interface shows a list of the IED670 parameters and sets the ANSI 87 parameters according to them.

**This interface is available in the standard TDMS package.**

Please, log in **software download area** on our web site and upgrade the software free of charge (available only for ISA customers).



### ISA NEW SECONDARY INJECT TEST SET T 1000 PLUS - ENHANCED MODEL

ISA developed an enhanced model of secondary injection test set T 1000 PLUS. The main new additional features are:

- 2 auxiliary output contacts for the test of autoreclosers
- USB and RS232 interface
- Start and stop switches on auxiliary ac and dc voltages: outputs can be applied when necessary.

**T 1000 Plus will be available from September 2008 and will replace the former model T 1000.**

If you need to have more information about this test set, please, visit our **web site**.

### NEXT EVENTS

Please, find below a list of relevant events ISA and its representatives will attend:

DATE OCTOBER	EXHIBITION	COUNTRY	WEB SITE
6 > 10	Circuit Breaker & Substation Maintenance Conference	Pittsburg USA	<a href="http://www.circuitbreakerconference.com">www.circuitbreakerconference.com</a>
7 > 9	15th Specialized Exhibition-fair 'Power Engineering. Electrotechnical Engineering - 2008'	Vladivostok RUSSIA	<a href="http://www.exponet.ru">www.exponet.ru</a>
14 > 17	ELO SYS SLOVAKIA 14th International Fair of Electrical Engineering, Electronics and Power Engineering	Slovakia	<a href="http://www.elosys.sk">www.elosys.sk</a>
28 > 1 November	Matelec Feria de Madrid	Madrid SPAIN	<a href="http://www.ifema.es/ferias/matelec/default_i.html">www.ifema.es/ferias/matelec/default_i.html</a>



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