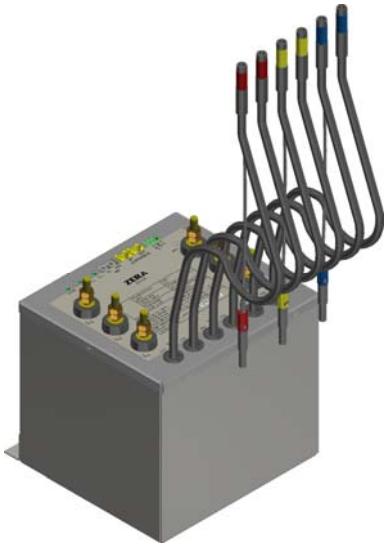
ZERA

ICT-Series

ICT130

Isolated Current Transformer



General

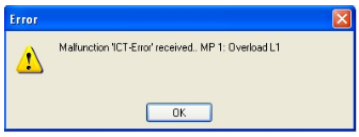
The amount of meters on the market with a current-voltage-link that cannot be opened is steadily growing. To test a meter, however, the current and voltage must be galvanically separated. This task is carried out by these ICT.

High Accuracy

Each ICT consists of three precision current transformers with combined electronic fault compensation. This fault compensation regulates the losses in the converter core near to zero. This allows the ICTs to achieve high degrees of accuracy over the entire current range.

Intelligent Fault Detection

The ICT has a phase oriented error indication. It detects faults and transmits this information together with the position number to the system bus. Fault messages are directly shown on the screen, using the WinSAM control software. In addition, the status LEDs on the front panel of an ICT indicate the phase in which a fault has occurred. Faults can only be shown on a screen when this has been integrated into a system.

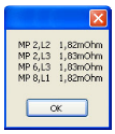


Integrated

Thanks to its compact design, existing test systems can be easily upgraded and extended. When testing three-phase meters, one ICT is required per meter. It is also possible to test single-phase meters.

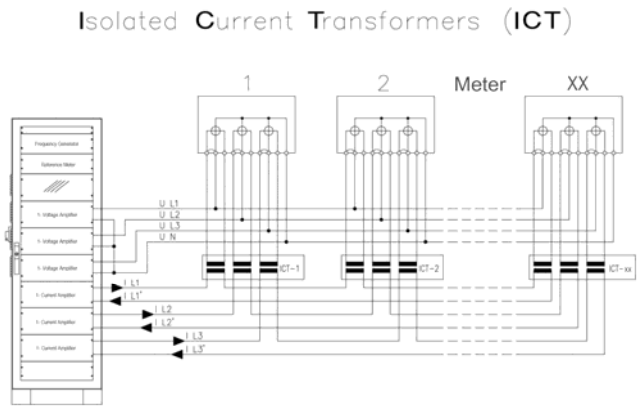
Integrated Self-protection

If the ICT is located in an open current circuit, the integrated self-protection is activated at once and prevents damage at the device.



Burden measurement

Use of ICTs in a multi-position system



Technical Data

	ICT130
General	
Power supply	± 16 V ± 0.5 V ± 0.5 A
Power consumption	max. 15 W
Temperature range, operation	+5° … + 40° C
Temperature range, storage	-15° … + 65° C
Relative humidity (not condensing)	max. 95 %
Dimensions (DxWxH)	220 x 225 x 237 mm
Weight	14.5 kg
Safety	
Declaration of conformity	CE conform
Isolated Current Transformer	
Nominal current	100 A
Maximum current	120 A
Current prim.	10 mA ... 120 A
Current sec.	10 mA ... 120 A
Ratio	1:1
Ratio error 4) 2)	< 0.01 % @ 1 A ... 120 A < 0.03 % @ 150 mA ... < 1 A < 0.13 % @ 20 mA ... < 150 mA < 0.25 % @ 10 mA ... < 20 mA
Phase displacement 4) 2)	< 1 min @ 1 A ... 120 A < 3 min @ 150 mA ... < 1 A < 10 min @ 20 mA ... < 150 mA
Max. rated burden 2) 5)	400 mV / Isec @ 5 A ... 120 A 80 mΩ @ < 5 A
Length of meter cable	650 mm
Fundamental frequency	45 ... 65 Hz

2: Related to secondary side

4: Without secondary voltage

5: Measured at the terminal

Subjects to alteration.

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