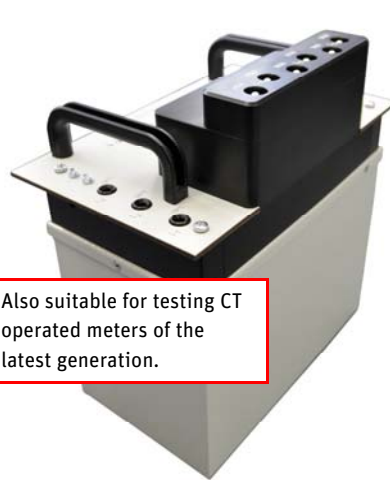


ICT127 – ICT128

Isolated Current Transformer



ICT127 Also suitable for testing CT operated meters of the latest generation.



ICT128 Very compact design for testing up to 240 A.

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 this ICT – the Isolated Current Transformer.

ICT127 is characterized especially by its high accuracy for current < 12 A. Due to its compact design the ICT128 is suitable to our pre-configured standard test benches.

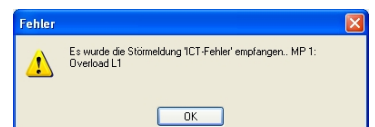


High Accuracy

The ICT consists of three updated precision current transformers with combined electronic, optimized fault compensation. This fault compensation regulates the losses in the converter core near to zero. This allows the ICT to achieve high degrees of accuracy.

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 or Stand-alone *

* only ICT128

Integrated Self-protection

Burden Measurement ** (optional)

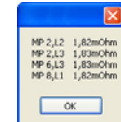
Breaker-Test ** (optional)

** only ICT127

The ICT allows you to choose both options: installation in a system or use as a stand-alone device*. 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.



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

ICT127 provides with WinSAM (beginning from version 6) error detection and indication within the meter contact in every phase. After the burden measurement has been performed a corresponding message appears.

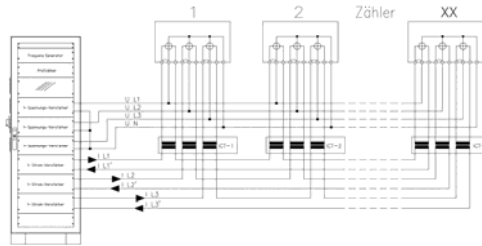


Breaker test

Moreover via WinSAM6 a breaker test function for meters with remote switch-off is available. For testing the contact (open or closed) a minimum of current will be sent through the meter.

Use of ICTs in a multi-position system

Isolated Current Transformers (ICT)
Isolierender Stromwandler



Technical Data

	ICT127	ICT128
General		
Power supply	230 V -10 % +15 %, 47 ... 63 Hz	230 V -10 % +15 %, 47 ... 63 Hz
Power consumption	max. 12 VA	max. 12 VA
Temperature range, operation	+5° ... +40° C	+5° ... +40° C
Temperature range, storage	-15° ... +65° C	-15° ... +65° C
Relative humidity (not condensing)	max. 95 %	max. 95 %
Dimensions (DxWxH)	280 x 165 x 300 mm	280 x 165 x 300 mm
Weight	18.4 kg	27.1 kg
Safety		
Declaration of conformity	CE conform	CE conform
Protection class according to DIN EN 61140	I	I
Isolated Current Transformer		
Nominal current	100 A	100 A
Maximum current	120 A	120 A
Current prim.	10 mA ... 120 A	2 mA ... 120 A
Current sec.	1 mA ... 120 A	4 mA ... 240 A
Ratio 2) (ICT127 1))	1 : 1 @ 12 A ... 120 A	1:2
	10:1 @ 1 mA ... < 12 A	
Ratio error 2) 4)	< 0.01 % @ 2 A ... 120 A < 0.02 % @ 250 mA ... < 2 A < 0.05 % @ 50 mA ... < 250 mA < 0.08 % @ 10 mA ... < 50 mA < 0.3 % @ 1 mA ... < 10 mA	< 0.05 % @ 2 A ... 240 A < 0.10 % @ 300 mA ... < 2 A < 0.15 % @ 40 mA ... < 300 mA < 0.3 % @ 20 mA ... < 40 mA < 1.0 % @ 4 mA ... < 20 mA
Phase displacement 2) 4)	< 1 min @ 2 A ... 120 A < 2 min @ 250 mA ... < 2 A < 5 min @ 50 mA ... < 250 mA < 10 min @ 10 mA ... < 50 mA < 20 min @ 1 mA ... < 10 mA	< 1 min @ 2 A ... 240 A < 3 min @ 300 mA ... < 2 A < 10 min @ 40 mA ... < 300 mA < 20 min @ 20 mA ... < 40 mA < 40 min @ 4 mA ... < 20 mA
Max. rated burden 2)	600 mV / Isec @ 12 A ... 120 A 6 V / Isec @ 1 A ... < 12 A 6 Ω @ < 1 A	500 mV / Isec @ 5 A ... 240 A 100 mΩ @ < 5 A
Max. length of meter cable	650 mm @ ≥ 35 mm²	650 mm @ ≥ 70 mm²
Fundamental frequency	45 ... 65 Hz	45 ... 65 Hz

1: switchable via RS485
2: related to secondary side
Subjects to alteration.

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ZERA GmbH
Hauptstraße 392
53639 Königswinter
Germany
Tel.: +49 (0) 2223 704-0
Fax: +49 (0) 22 23 704-70
E-Mail: zera@zera.de
Web: www.zera.de