

Data Sheet no. 1.58/2

Secondary Current Measurement for AC Test Systems Type MI11W

Application

Secondary current measurement, this means the measurement of the current on the high-voltage side of the generator, is helpful for different applications:

For *AC test systems based on transformers* the measurement is performed with the module **Type MI11W**. It delivers a parameter of the AC test of general interest, especially of importance for short-time operation with test currents higher than the rated current or for pollution tests. The module MI11W is not mandatory for AC test systems with transformers, but a recommendable option.

For *AC test systems based on resonant circuits* the application of the module **Type MI11W** is mandatory, because due to the resonant phenomena the current in the HV circuit is not proportional to the feeding current. The protection of the test object and the test system requires the knowledge of the current in the HV circuit.

Design and Operation

The AC module **Type MI11W**, consists of a current measuring transformer (selected according to the rated current of the AC test system) and a measuring transducer. The current transformer is placed close to the grounded end of the HV winding of the test or exciter transformer whereas the transducer is placed in the switchgear cubicle. Both are connected by a two-wire cable. The output voltage of the transducer (0 ... 10 V DC) is processed by a programmable logic controller (PLC) and displayed on the operator device, type BG5, or on the industrial personal computer (IPC) of the controls, types CMS22 or 23.

For further information please contact:

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