

# VEW TM050 RED current converter

## Redesign

The VEW TM050 current converter is a redesign of the TM050BBFHN1N current converter from ABB and is fully dimensionally compatible and functionally compatible.

The device is suitable for measuring DC, AC and pulse currents of up to 0.1A.

The nominal measurement range is 50mA in the primary electrical circuit.

The measured current is implemented at a ratio of 4000/2000 in the secondary circuit and galvanically isolated.

The precision in the nominal range is at <1% in the DC...1KHz frequency range.

The test voltage for the galvanic isolation between the primary and secondary circuit is >6kV rms.

The secondary and primary connections are made on M5 screw bolts with colour coding.

The current flow direction is important in primary connections, as the signal for the secondary circuit will be the inverse of the current directions.

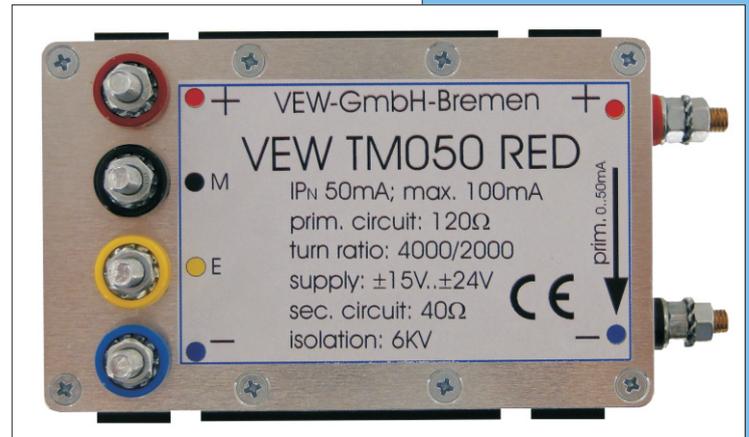
The device comes in a monoblock fully plastic housing, which has internal chamber isolation.

The primary connection bolts pressed in the plastic surface of the housing guarantee the high insulation voltage.

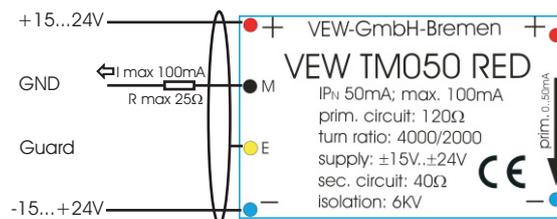
The supply voltage of  $\pm 15...36V$  (nom.24V) is connected to the insulated screw bolts on the front plate (+ = red, - = blue).

The metering signal in the secondary circuit is available on the M screw bolt (sw) depending on the current direction with corresponding polarity countering the GND.

The E screw bolts (yellow) connect to the shield of a protected metering line.



### Wiring secondary



### Technical data:

Dimension	: Groundplate 108x83mm; locking 4xM5; H: 100, B: 130, T: 83mm
Supply	: $\pm 24V$ nom. Range: $\pm 15...36V$
Measuring range	: nom. 0...50mA, max. 0...100mA primary
Turn ratio	: primary//secondary 4000/2000
Rp primary	: nom. 120Ω
Rs secondary	: nom. 65Ω
Accuracy	: <1% DC...1KHz (DC, AC, Impuls)
Isolation	: primary // secondary 6kV
Operating temperature	: -25°C ... +60°C



### DIE ENTWICKLER

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