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## WITT EPM 3 - Earth Potential Meter

- EPM 80



\* Product like copy

### **Application**

This measurement device monitors the potentials of the connected grounds and evaluates the occurring voltages (see technical specifications).

## **Description**

While operating DC railways with the running rail as return conductor various ground resistances generate voltages that might be dangerous for humans or buildings. One of the measures to protect humans from impermissible contact voltages is the temporary short-circuit of the various grounding systems according to DIN EN 50122-1.

### **Function**

The voltage between the earths or return conductor respectively that are to be monitored is continuously measured. By exceeding the threshold setting a switching command is given via a potential-free changeover for the activation of further devices such as an earth short-circuiting device or an isolator. The limit value can be set on the front panel.

#### **General Data**

WIII

Supply voltage Power consumption

Operating temperature
Protection according to ICE 34
Test voltage
Dimensions (W x H x D)
Connections

110 to 375 VDC or 85 to 264 VAC

Neutral < 100 mW

Release < 500 mW

-20 ... 50 °C

IP 50

10 kVDC

110 x 155 x 125 mm

Screw terminals

#### **Input**

Voltage metering Trigger time Input resistance Maximum input voltage adjustable DC 60 - 120 V 5 - 35 ms > 60 kOhm 10 kVDC for 200 ms

#### **Output**

Threshold exceeded Switching voltage Switching current Switching power Separation voltage Relay, 1 changer max. 5000 VDC max. 3 ADC max. 50 W max. 10 kVDC