With its voltage and frequency analyzer ZH1114, Schaltbau meets the requirements of modern cross-border traffic. The ZH1114 identifies the voltage ranges according to UIC 550 and operates as an electronic control device for the Schaltbau changeover unit which adapts the individual loads of the railway vehicle to the different detected supply voltages. Additionally, the correct electrical configuration is being tested by the device.

**Features:**
- Identification of UIC 550 compatible voltages (1 kV 16½ Hz / 1.5 kV 50 Hz / 1.5 kV DC / 3 kV DC) and 3 kV 50 Hz
- Meets insulation requirements for 3 kV DC (UIC 550) according to EN 50124-1
- Customised setting of the device via PC – same hardware for different configurations

**Standards:**
- EN 50155 type test incl. insulation, EMC, vibration/shock

**Application:**
- Adapting the electrical configuration of RIC passenger cars and inverters for auxiliary equipment in locomotives and motorized trains to supply voltage

**Input voltage range**
- According to UIC 550
  - 680 V … 3,000 V AC, 16½ ... 50 Hz
  - 900 V ... 3,000 V DC *

**Measurement range**
- bis 5,000 V AC, 16½ ... 50 Hz
- bis 6,000 V DC

**Control voltage U\(_{\text{nom}}\)**
- 24 V *

**Power consumption at U\(_{\text{nom}}\)**
- without applied high voltage
  - 90 mA
- with applied high voltage
  - 180 mA

**Temperature range**
- -25°C ... +85°C

**Vibration, Schock**
- IEC 61373

**Degree of protection (IEC 60529)**
- IP20

**Dimensions (L x B x H)**
- (273 x 201 x 178) mm

* Others on request