Measuring Devices for Signalling Systems and Telecommunication

**Tester for Insulated Rail Joints SICO 2046**
- Safe and contact-less testing of insulated rail joints with direct resistance indication
- Provides true resistance measurements from insulated rail joints
- No more mistaken removal of faultless joints
- Test results, including joint identification, are stored in the device

**Tester SICO 2049 for Axle Counter ZP30**
- Testing and setting device for detection points ZP30 and wheel sensor RSL of the TRSS
- Measurements are taken directly from the measurement adapter at the EAK service plug as this avoids interference from cables

**Tongue Force Measuring Device HZM**
- Perfect force testing on point setting systems
- Simple operation
- Measures:
  - Holding force of the point mechanism
  - Setting resistance
  - Impact force
  - Initial tongue tension
  - Hand switch operation force

**CLIPLANS SICO 4004**
- Electronically monitored mobile track shunt for track circuit occupation
- Suitable for all track circuits types, including high-voltage pulse generating DC circuits
- Shunt cable for universal application at any rail gauge
- Signaling with high-luminosity LED signal, visible from a large distance by adapting itself to surrounding luminosity

**Selective Meter SICO 1214 - KS1**
- Meter for selective AC current and voltage measurements on GLS/ FTGS track circuits and
  - Track circuits with 25/ 42/ 50/ 77/ 100/106.7 Hz
- Measures: Mains voltage, DC voltage, Frequency
- The tester detects: Short circuits, Line breaks, Transition resistances

**Tester FTGS / GLS / AZS (PEGA 1211)**
- Testing and setting device for Siemens track circuits and axle counters GLS 9/15, FTG S 46 / FTG S 917, and AzS 70 with ZP 43 and ZP 70
- Exclusively distributed by Siemens

**Selective Meter SICO 1214 – LZB**
- Meter for selective voltage and current measurements on Thales ypr Continuous Automatic Train Control ATC/LZB
- Frequencies: 9/ 36/56 kHz
- Current measurements at 36 kHz are realized with the help of the current clamp SICO 1123

**Tester SICO 1214 – FMX**
Fault finding, setting and testing measurements on,
- Cable transmission links of the audio-frequency transmission system FMX 2/SbL 60
- Axle counters with Sk 11 SEL

**Selective Meter SICO 1214 – JADE**
- Selective voltage and current measurements on GEC ALSTOM JADE track circuits with varying frequencies
- Measurement of track currents by means of an easy-to-use flexible current transducer
Rail Clip Contact SZ 1103
Quick and reliable contact of electrical devices to rails
- To be used for:
  - Axle resistance measurement/dropout tests on track circuits
  - Any exposed rail profile
- The installation on the base of the rail can be made without any tools
- Reliable contact despite thick rust on the rail and during normal train service
- Sharp-edged, hardened tip and a permanently pushing spring allow constant pressure to the rail

Resistor Unit for Axle Resistance Measurement SICO 1107 and 3016
- Tool for the testing of low-frequency track circuits
- Determination of the resistance, in which the track circuit signals the occupation of a line with shunting resistor
- Quick and reliable determination of the axle resistance, in which the rail relay drops out
- Resistances:
  - SICO 1107: 0.1/0.2/…/0.9/1.0Ω
  - SICO 3016: 0.1/0.2/…/2.9/3.0Ω
- Recommended accessory: Rail Clip Contact SZ 1103 for a quick and secure installation on the rails

Electronic Stethoscopes ISKO 1205 and ISKO 1218
- Tester to locate breaks and short circuits in railway tracks
- Locates inch by inch defective insulations and faulty contacts in tracks
- The device is used as track tester on:
  - Low-frequency track circuits without continuous automatic train running control
  - Parts of the traction current feedback
- Fault finding
  - Area rail/sleeper
  - In insulated points, on insulated joints and impedanc bond transformers
  - On electrically conducting connections
- Testing of balancing connections, earth cables, and jump cables
- Locates faults on hidden parts of plants (track rods under the pavement)
ISKO 1218:
- Tester to locate line breaks and short circuits in tram tracks by Hanning & Kahl GmbH & Co
- Switch control systems by Siemens AG

Short to Earth Measuring Instrument EMG 98-2 / 750 V
- Determination of the continuous current-earth transfer resistance of plants and electric circuits in DC nets (12 V…136 V) and AC nets (max.750 V)
- The device tests the insulation resistance between:
  - Relay rack and earth
  - Regulation table and earth
  - Battery and earth
  - Test of the cable insulation resistances (freeness of cable terminals and terminal short circuits from earth)

Insulation Resistance Measuring Instrument IMG 500
Device to measure the insulation resistance in cable systems and current circuits in DC or AC nets
- Test the core insulation resistance of cables
- Test of the insulation resistance between rack and connected housing on ZP 43 counters
- Test of insulation resistance of electric circuits
- Test of the insulation resistance of plants
Transducer for Track Currents SW 1209
- Transducer to measure traction current in rails for alternating current
- Suitable for harmonic wave analyses up to 30 kHz
- Several transducers together can measure the current distribution in earth-meshed tracks
- Held by magnet on the rail, opposite the wheel profile
- Connecting lead up to 2000 m long

Phase Angle Meter PSM 100
- Phase angle meter for track circuits of SpDr L60 railway control centers
- Measures phase angle and relay voltage
- Start-up and testing of track circuits with 50/83/100 Hz of the railway control center SpDr L60
- Voltage for the device is supplied by the auxiliary voltage of the track circuit

Phase Angle Tester PWP 1000
- For low-frequency track circuits with motor-driven relays and valve track circuit relays
- Measuring of phase angle, operating frequency, track voltage, and auxiliary voltage / mains voltage
- Display of phase angle
- Unadulterated measurements because of the measuring inputs being electrically isolated from each other and to earth
- Automatically sets the operating frequency

Tester SICO 1225
- Measurements:
  - Trailing factor
  - Auxiliary phase voltage and current
  - Limited attraction voltage and current of the track phase
  - Limited trailing voltage and current of the track phase
- Contact testing
- Fully automatic measurement with LC-display of the trailing factor
- Exclusion of subjective measurement faults

Adjuster for Train Coupling Coils SICO 1230
Voltage meter adjustment of ZUB vehicle coupling coils applying to the systems ZUB 100 and ZUB 200 with a carrier frequency of 100 kHz and the circuit 50 kHz

Charger SICO 5006
- Charger for one or two nickel-cadmium batteries or nickel-metal hydride batteries type C (baby) with 1.2 V
- Automatic power shut off when the batteries have its full charge
- Each battery is monitored and switched off separately
- Automatic discharging of batteries, which are not completely empty

NiCd Charger LD 2
Battery charger for NiCd-batteries 9.6 V
Distributed by Siemens AG

Authorized Distributors in India, SAARC & ASEAN Countries
DECCAN ELECTRICALS
7-2-629 & 630, 1st Floor, R.P Road, Secunderabad-3, A.P, India
Ph: +91-40-27712145, 27713026 Fax: +91-40-27803801
info@deccancorp.com www.deccancorp.com