

Meter for selective current and voltage measurements on audio frequency and low frequency track circuits



Technology

- The Selective Meter SICO 2061 KS is suitable for
 - ❖ Adjustments,
 - ❖ Inspection, and
 - ❖ Acceptance testson audio frequency track circuits of the following types
 - ❖ FTGS 46,
 - ❖ FTGS 917,
 - ❖ GLS 9/15, and
 - ❖ TCM.
- With its efficient microcontroller technology and its easy operation the meter is especially suited to detect short circuits, line breaks and transition resistances on e.g. rail insulations, line connections, valve rods, earth cables, insulated rail joints, scissors crossings and impedance bonds.
- Measurements on track circuits are simply done without any contact because of the use of the flexible current transducer (left picture).
- It measures small signals even in places tending to be affected by high noise levels or external voltages (e.g. due to neighboring track circuits).
- Set-value frequencies easy to be set and clearly arranged operating menu
- Recording mode for measuring results:
Measuring results can be stored automatically in a scheduled period in defined intervals. The results are transferred to a PC with the data cable USB.
- Used as multimeter to measure:
 - ❖ Voltage AC (mains alternating voltage),
 - ❖ Voltage DC or
 - ❖ Frequency
- Selective alternating voltage and current measurements
- It displays immediately the measured result.
- Menu operated
- Large, excellent illuminated display
- The device is covered by a sturdy housing, distinguished by a wide operating temperature range and resistant to shocks and humidity, and therefore it is particularly tailored to the needs of operating and maintenance crews.
- Universal power supply: Accumulator Lithium-Ion or batteries type AA or rechargeable batteries type AA

Technical Data

Input resistance $\geq 1 \text{ M}\Omega$

Selective Voltage / Current Measurement (FTGS, GLS, TCM)

Measuring range	20 mV _{eff} ... 200 V _{eff} 20 mA _{eff} ... 20 A _{eff}
Range selection	automatic
Frequency range	4.75 ... 19.5 kHz

Selective Voltage / Current Measurement (Low Frequency Track Circuits)

Measuring range	50 mV _{eff} ... 200 V _{eff} 20 mA _{eff} ... 20 A _{eff}
Range selection	automatic
Frequency range	25 ... 125 Hz

Mode Multimeter

Range selection	automatic
Measuring range alternating voltage	50 mV _{eff} ... 260 V _{eff}
Measuring range direct voltage	200 mV _{eff} ... 200 V _{eff}
Measuring range frequency	50 Hz ... 99 kHz
Connections	4 mm safety sockets 8 pole socket on front
Power supply	1 accumulator Li-Ion type PA-LH201.K01.R001 or 3 batteries / accumulators size AA
Protection class	II
IP code display unit	IP 54
Operating time	> 8 hours (at 20 °C)
Operating temperature range	-40 °C ... +70 °C (when operating the device at less than - 20 °C a doubling of the given accuracy is permissible)
Storage temperature range	-40 °C ... +70 °C
Permissible maximum input voltage	300 V _{eff} (4mm socket)
Voltage resistance to conducting parts of housing	2.5 kV
Dimensions with handle	170 x 145 x 155 mm
Weight with accumulators	max. 1,5 kg

Flexible Current Transducer

Length	750 mm
Diameter of tube	approx. 18 mm
Inside diameter when flexible current transducer is closed	approx. 230 mm, suitable for - rail profiles S49, S54, UIC 60 and others - cable / line connection / scissors crossing / connecting to earth / valve rod / insulated rail joint ...
Length connection cable	approx. 2m
Connection to SICO 2061	8 pole plug
Weight	approx. 500g
Operating temperature range	-20 °C ... 55 °C
IP code	IP54

Scope of Supply

- Selective Meter SICO 2061 KS
- Connecting cable 4 mm, blue, 100 cm
- Connecting cable 4 mm, red, 100 cm
- Accumulator Li-Ion PA-LH201.K01.R001
- Charger SICO 5007 for Lithium-Ion cells type PA-LH201.K01.R001, manual included
- Data cable USB
- Transport case
- Manual
- Acceptance test certificate 3.1 according to BS EN 10204
- Optional Accessory: Rail Clip Contact SZ 1103
Flexible Current Transducer
Data cable RS232

We will be glad to supply more information on request.