

Rail Signal Meter

SICO 2061 KS JADE

Meter for selective current and voltage measurements on low frequency track circuits and JADE track circuit:

- Track circuits with 25 / 42 / 50 / 60 / 75 / 77 / 80 / 83 / 95 / 100 / 105 / 106,7 / 125 / 137,5 / 175 / 225 / 250 / 275 Hz

- JADE track circuit with 1,595 / 1,894 / 2,206 / 2,500 / 2,841 / 3,157 / 3,472 / 3,750 / 49,081 / 67,231 kHz

! Other track circuits and frequencies are available on demand.



Data

Input resistance: >/= 1 MOhm
Connections:
- 4 mm safety sockets
- 8 pole socket on front
Power supply:
- 1 rechargeable battery Li-Ion type PA-LH201.K01.R001 or
- 3 non-rechargeable batteries / rechargeable batteries size AA
Protection class: II
IP code display unit: IP 54
Operating time: > 8 hours (at 20°C)
Operating and storage temperature range: -40°C … +70°C
(when operating the device at less than -20°C a doubling of the given accuracy is permissible)
Permissible maximum input voltage: 300 Veff (4 mm socket)
Voltage resistance to conducting parts of housing: 2.5 kV
Dimensions with handle: 170 x 145 x 155 mm
Weight with batteries: max.1.5 kg



Selective Voltage / Current Measurement
- Measuring range:
50 mVeff ... 200 Veff
20 mAeff ... 20 Aeff
- Range selection: automatic

Mode Multimeter
- Range selection: automatic
- Measuring range alternating voltage: 50 mVeff ... 260 Veff
- Measuring range direct voltage: 200 mVeff … 200 Veff
- Measuring range frequency: 20 Hz … 99 kHz



Technology

The Selective Multimeter SICO 2061 KS JADE is suitable for adjustments, inspection and acceptance tests on most low track circuits worldwide and JADE track circuit.

Current measurements on track circuits are simply done without any interference using flexible transducers.

With its efficient microcontroller technology and its easy operation the meter is especially suited to detect short circuits and contact resistances on e.g. rail insulations, line connections, valve rods, earth cables, insulated rail joints, scissors crossings and impedance bonds.

It measures small signals even in places tending to be affected by high noise levels or

Signal Concept GmbH
Geschäftsführer: Stefan Wetzig
Südring 11, 04416 Markkleeberg, Deutschland
Tel.: +49 (0)34297 1439 0, Fax: +49 (0)34297 1439 13

E-Mail: info@signalconcept.de
Internet: www.signalconcept.de
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external signals (e.g. due to neighboring track circuits).

Preset frequencies can easily be chosen from the well-arranged 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 USB data cable.

Multimeter functions:
- Voltage AC (mains alternating voltage),
- Voltage DC or
- Frequency

Frequency-selective measurement of alternating voltage and current

Large, illuminated LCD showing measuring results instantaneously.

The device is enclosed in a sturdy shock and humidity-resistant housing. With its wide operating temperature range it is particularly tailored to the needs of operating and maintenance crews.

Universal power supply: One single Lithium-ion rechargeable batterie or three type AA rechargeable/non-rechargeable batteries.

Delivery

- Rail Signal Meter SICO 2061 KS Basic Unit (Selective Multimeter)
- SICO 2061 KS Firmware Basic Module Multimeter AC, DC, F
- SICO 2061 KS Firmware Basic Module for low frequency track circuits, frequency selective measurements, frequencies: 25 / 42 / 50 / 60 / 75 / 77 / 80 / 83 / 95 / 100 / 105 / 106,7 / 125 Hz / 137,5 / 175 / 225 / 250 / 275 Hz
- 1 Measuring lead 4 mm, blue, 100 cm
- 1 Measuring lead 4 mm, red, 100 cm
- 1 Rechargeable battery Lithium-Ion type PA-LH201.K01.R001
- 1 Charger SICO 5007 for Lithium-Ion cells type PA-LH201.K01.R001, manual included
- 1 Transport case
- 1 Data cable USB
- SICO 2061 KS Basic unit manual
- SICO 2061 KS Basic unit Acceptance test certificate 3.1 according to BS EN 10204

Optional accessories

- SICO 2061 KS Firmware System Module Track Circuit JADE
frequency selective measurement, frequencies: 1,595 / 1,894 / 2,206 / 2,500 / 2,841 / 3,157 / 3,472 / 3,750 / 49,081 / 67,231 kHz

- SICO 2061 KS Flexible Current Transducer JADE
frequencies: 1,595 / 1,894 / 2,206 / 2,500 / 2,841 / 3,157 / 3,472 / 3,750 kHz

- SICO 2061 KS Flexible Current Transducer Low Frequency Track Circuits
frequencies: 25 / 42 / 50 / 60 / 75 / 77 / 80 / 83 / 95 / 100 / 105 / 106,7 / 125 / 137,5 / 175 / 225 / 250 / 275 Hz

- SICO 2061 KS Firmware System Module Track Circuits FTGS, GLS, TCM
frequency selective measurement, frequencies: 4,75 / 5,25 / 5,75 / 6,25 / 9,5 / 10,5 / 11,5 / 12,5 / 13,5 / 14,5 / 15,5 / 16,5 / 17,5 /18,5 / 19,5 kHz

- SICO 2061 KS Flexible Current Transducer FTGS, GLS, TCM
frequencies: 4,75 / 5,25 / 5,75 / 6,25 / 9,5 / 10,5 / 11,5 / 12,5 / 13,5 / 14,5 / 15,5 / 16,5 / 17,5 /18,5 / 19,5 kHz

- Rail Clip Contact SZ 1103
- Data cable RS232

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! Other Track Circuit Firmware System Modules and Flexible Current Transducer with more freqencies are available on demand.

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