WARRANTY INFORMATION

LIMITED ONE-YEAR WARRANTY

MAXTEC INTERNATIONAL CORPORATION warrants to the original purchaser that the B & K-Precision product, and the component parts thereof, will be free from defects in workmanship and materials for a period of one year from the date of purchase.

MAXTEC will, without charge, repair or replace, at its option, defective products or component parts upon delivery to an authorized B & K-Precision service contractor or the factory service department, accompanied by proof of the purchase date in the form of a sales receipt.

To obtain warranty service in the U.S.A., this product must be registered by completing and mailing the enclosed warranty registration card to MAXTEC, B & K-Precision, 6470 West Cortland Street, Chicago, Illinois 60635 within fifteen (15) days from the date of purchase.

Exceptions: This warranty does not apply to the event of misuse or abuse of the product or as a result of unauthorized alterations or repairs. It is void if the serial number is altered, defaced or removed.

MAXTEC shall not be liable for any consequential damages, including without limitation damages resulting from loss of use. Some states do not allow limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific rights and you may also have other rights which vary from state to state.

For your convenience we suggest you contact your local B & K-Precision distributor, who may be authorized to make repairs or can refer you to the nearest service contractor. If warranty service cannot be obtained locally, please send the unit to B & K-Precision Service Department, 6470 West Cortland Street, Chicago, Illinois 60635, properly packaged to avoid damage in shipment.

B & K-Precision Test Instruments warrants products sold only in the U.S.A. and its overseas territories. In other countries, each distributor warrants the B & K-Precision products which it sells.

ACCESSORIES SUPPLIED

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FREQUENCY COUNTERS

Model 1803A  100MHz
Model 1804  550MHz
SPECIFICATIONS

Unless otherwise stated, specifications apply to both Model 1803A and 1804

FREQUENCY CHARACTERISTICS

Ranges:
1803A: 5 Hz to 100 MHz
1804 Direct: 5 Hz to 100 MHz
1804 Preset: 10 MHz to 100 MHz

Accuracy:
1.0% for Gates: ±1% base accuracy at 10 count
2.0% for Gates: ±2% base accuracy at 100 count

Resolution:
1803A: 0.2 Hz
1804 Preset: 0.1 Hz

Display:
2.0% for Gates: ±1% base accuracy at 10 count
2.0% for Gates: ±2% base accuracy at 100 count

DISPLAY CHARACTERISTICS

Types:
Crystal oscillator

Frequency:
5.24288 MHz

Stability:
±0.1 part per million

Temperature:
Better than ±0.001% (±10°C)

Stability:
±0.1% from 0°C to 10°C

Maximum:
±0.01% per year

DISPLAY CHARACTERISTICS

Overload:
OVERLOAD indicator (top left corner of display) lights when output exceeds 99.9999% of range.

DISPLAY CHARACTERISTICS

Update Time:
1.0 second per gate: 2.5 seconds

Low Battery Indication:
Model 1803A Only: All digits flash for battery voltage under 7.4 V.

GENERAL

Power:
AC Operation: 110 V, 60 Hz or 220 V, 16/60 Hz
DC Operation: 6 AA cells, alkaline or Ni-Cd, 4.5 V

Dimensions:
Height x Width x Depth: 20.5 x 160 x 354 mm

Weights:
Approx. 2.4 lbs (1.1 kg)

1804 Preset: 0.1 Hz

Display:
8.4"x LCD

CONTROLS AND INDICATORS

1. Input Jack (1803A), Direct Input Jack (1804). Input jack for 5 Hz to 100 MHz frequency measurements.
2. Prescale Input Jack (1804 only). Input jack for 16 MHz to 100 MHz frequency measurements.
3. Display: 8.4"x display used for all frequency readings.
4. OVERLOAD indicator. Lights whenever range of display is exceeded.
5. POWER/GATE TIME Switch. 3-position slide switch (OFF-0.18-1.58). Power on in OFF position. Power is on in 0.18 or 1.58 position. 0.18 position selects 0.1 second gate times (10 Hz resolution for direct input, 100 Hz resolution for preset input). 1.58 position selects 1.5 second gate times (1 Hz resolution for direct input, 10 Hz resolution for preset input).
6. LFP Switch (1803A), INPUT SELECT Switch (1804). For Model 1803A, 3-position slide switch. In OFF position, input is applied directly to counter. In 012 position, input is routed through low-pass filter (approximately 100 kHz cutoff). For Model 1804, 1-position slide switch. In 100 MHz position, preset input is applied to counter. In 16 MHz position, direct input is applied to counter. In LFP position, direct input is routed through low-pass filter (approximately 100 kHz cutoff).

Fig. 1. Maximum input protection during testing.

Fig. 2. Controls and indicators.