

Inductance 1mH-10,000H Resistance 10Ω-10MΩ
 Capacitance 1000pF-10,000μF Dimensions 88.90 (W) x 187.33 (H) x 38.10 (D)

T587

| | Order Code | Price Each | | |
|--------|------------|------------|----|-----|
| | | 1+ | 5+ | 10+ |
| 72-960 | 342-1521 | | | |

**Precision LCR Bridge
LCR400**



The LCR400 is a low-cost precision LCR bridge intended for use within goods inward inspection areas, laboratories and Production Facilities. The measurement accuracy is 0.1% and the maximum measurement frequency is 10kHz. Features include dual displays, a built-in limits comparator with binning, and an RS-232 interface for set-up and results logging. A high quality test fixture is incorporated into the body of the instrument.

New

- 0.1% basic measurement accuracy
- Three test frequencies
- Dual 5 digit high brightness displays
- Automatic component recognition
- Built-in 4 terminal component fixture
- Switchable bias voltage
- Protection against charged capacitors
- Limits comparator with 8 pass bins plus 2 fail bins
- RS-232 interface

Measurement functions
 Parameters measured: R, L, C, D, & Q
 Measurement modes: Series or parallel equivalent circuit
 Measurement functions: Fully autoranging including L, C, R selection, range hold
 Zero function: Nulls out up to 100pF at test fixture
 Measurement frequency: Selectable as 100Hz, 1kHz or 10kHz
 Displayed functions: R+Q, L+Q, C+D, C+R

| Measuring ranges | Resistance: | Inductance: | Capacitance: | D: | Q: | Accuracy: |
|------------------|-----------------|------------------|-----------------|----------------|------------------|---------------|
| Resistance: | 0.1mΩ to 990MΩ | 0.001H to 9900H | 0.001pF to 99mF | 0.001 to 999 | 0.001 to 999 | 100Hz |
| Inductance: | 0.001H to 9900H | 0.001pF to 99mF | 0.001 to 999 | 0.001 to 999 | 100Hz | 1kHz |
| Capacitance: | 0.001pF to 99mF | 0.001 to 999 | 0.001 to 999 | 0.001 to 999 | 100Hz | 10kHz |
| D: | 0.001 to 999 | 0.001 to 999 | 0.001 to 999 | 0.001 to 999 | 0.001 to 999 | 100Hz |
| Q: | 0.001 to 999 | 0.001 to 999 | 0.001 to 999 | 0.001 to 999 | 0.001 to 999 | 100Hz |
| Accuracy: | 100Hz | 1kHz | 10kHz | 100Hz | 1kHz | 10kHz |
| R | 0.1% ± 1 digit | 2Ω to 1MΩ | 2Ω to 500KΩ | 0.1% ± 1 digit | 2Ω to 1MΩ | 2Ω to 500KΩ |
| | 0.5% ± 1 digit | 0.4Ω to 5MΩ | 0.4Ω to 2MΩ | 0.5% ± 1 digit | 0.4Ω to 5MΩ | 0.4Ω to 2MΩ |
| | 2% ± 1 digit | 0.1Ω to 20MΩ | 0.1Ω to 10MΩ | 2% ± 1 digit | 0.1Ω to 20MΩ | 0.1Ω to 10MΩ |
| L: | 0.1% ± 1 digit | 4mH to 500H | 4mH to 50H | 0.1% ± 1 digit | 4mH to 500H | 40μH to 5H |
| | 0.5% ± 1 digit | 0.8mH-2500H | 80μ-250H | 0.5% ± 1 digit | 0.8mH-2500H | 8μ-25H |
| | 2% ± 1 digit | 0.2mH to 9900H | 20μH to 1000H | 2% ± 1 digit | 0.2mH to 9900H | 2μH to 100H |
| C: | 0.1% ± 1 digit | 10nF-1000μF | 1nF to 100μF | 0.1% ± 1 digit | 10nF-1000μF | 100pF to 10μF |
| | 0.5% ± 1 digit | 2nF-5000μF | 200pF-500μF | 0.5% ± 1 digit | 2nF-5000μF | 20pF-50μF |
| | 2% ± 1 digit | 500pF to 20000μF | 50pF to 2000μF | 2% ± 1 digit | 500pF to 20000μF | 5pF to 200μF |

(R accuracies apply for Q<0.1. L accuracies apply for Q>10. C accuracies apply for D<10.1 and after Null).
 Limits comparator
 Limits set-up: Multiple upper and lower limits can be set from the keyboard or from the RS-232 interface
 Binning: Up to 8 pass bins can be defined plus fail high and fail low.
 Display type: Dual 5-digit 0.56" LEDs. Max. count 30,000. Display hold.
 Annunciators: LED annunciators for all functions and measurement units.
 Displayed functions: R+Q, L+Q, C+D, C+R, PASS/Hi/LO, bin number
 Inputs
 Component connection: 4-terminal connection via internal fixture for both radial and axial components. Sockets for 4-terminal external connection.
 Bias voltage: Switchable 2V polarising voltage. External bias up to 50V.
 Protection: Will withstand capacitors charged up to 50V.
 General
 Keyboard: Full numeric keyboard.
 Non-volatile memory: Up to 9 complete set-ups.
 Interfaces: RS-232
 Input voltage: 230V or 115V ± 14%, 50/60Hz, internally adjustable.
 Safety and EMC: Complies with EN61010-1, EN55081-1 and EN55082-1.

T534A

| | Order Code | Price Each | | |
|---------|------------|------------|----|----|
| | | 1+ | 3+ | 5+ |
| LCR 400 | 351-0906 | | | |

**Mini LCR Meter
72-6634**



A hand-held meter designed to measure inductance, capacitance and resistance.

New

- 3½" digit 1999 count LCD
- Overrange indication
- Power requirements 1 x 9V battery (not included)
- Dimensions W = 73, L = 120, D = 38.1
- CE marked
- Includes operating instructions and test leads

Inductance 2mH-20H Accuracy ±(5% +5 digits)
 Capacitance 2000pF-200μF ±(3% +3 digits)
 Resistance 200Ω-20MΩ ±(2% + 3 digits)
 Power requirements 9V battery (not included)

T562A

| | Order Code | Price Each | | | |
|-------------|------------|------------|----|-----|-----|
| | | 1+ | 3+ | 12+ | 25+ |
| 72-6634 | 356-2645 | | | | |
| PP3 Battery | 303-0957 | | | | |

Autoranging Digital – 10 Series



- 3½ digit LCD
- Rugged Construction
- VCHEK® automatic, electronic selection of ohms/continuity or voltage measurement. (Types 11 & 12)
- Capacitance measurement range 0.001 to 9999μF. (Types 11 & 12)
- Min/max recording and relative time capture. (Type 12)
- Diode and high speed audible continuity test
- 4000 count digital display
- Auto/manual ranging
- Approved to the safety requirements of UL1244, VDE0411 and IEC1010

H = 142.3, W = 70.5, D = 34.6

A combination of slide and push button switches are used to select measurement ranges and special features. This convenient arrangement both simplifies and speeds up operation.

Designed to compliment existing test equipment during preliminary measurements and fault diagnosis or as a versatile full feature instrument for first time users.

Vchek

Upon application of the test probes to the circuit under test the meter will automatically select the most appropriate range, voltage or ohms/continuity and display the measured value, reducing the chance of error and saving time during operation.

Min/Max Record and Time Capture

Records the minimum and maximum voltage measurement during a 100 hour period and stores the time at which they occurred.

Range

dc/ac voltage 400mV, 4V, 40V, 400V, 600V
 resistance 400Ω, 4kΩ, 40kΩ, 400kΩ, 4mΩ, 40mΩ
 Capacitance 1μF, 10μF, 100μF, 100
 Continuity threshold <25Ω
 Battery one 9V PP3 supplied with meter
 EMC requirements FCC Part15 Class B, VDE0871B

T192

| Mfrs. List No. | Order Code | Price Each | | |
|------------------------------------|-------------|------------|------|-----|
| | | 1+ | 5+ | 10+ |
| Type 10 | E 2 226-956 | | | |
| Type 11 | C 2 226-968 | | | |
| Type 12 | E 2 226-970 | | | |
| Standard Calibration Charge | | S E 2 | Each | |

continued

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