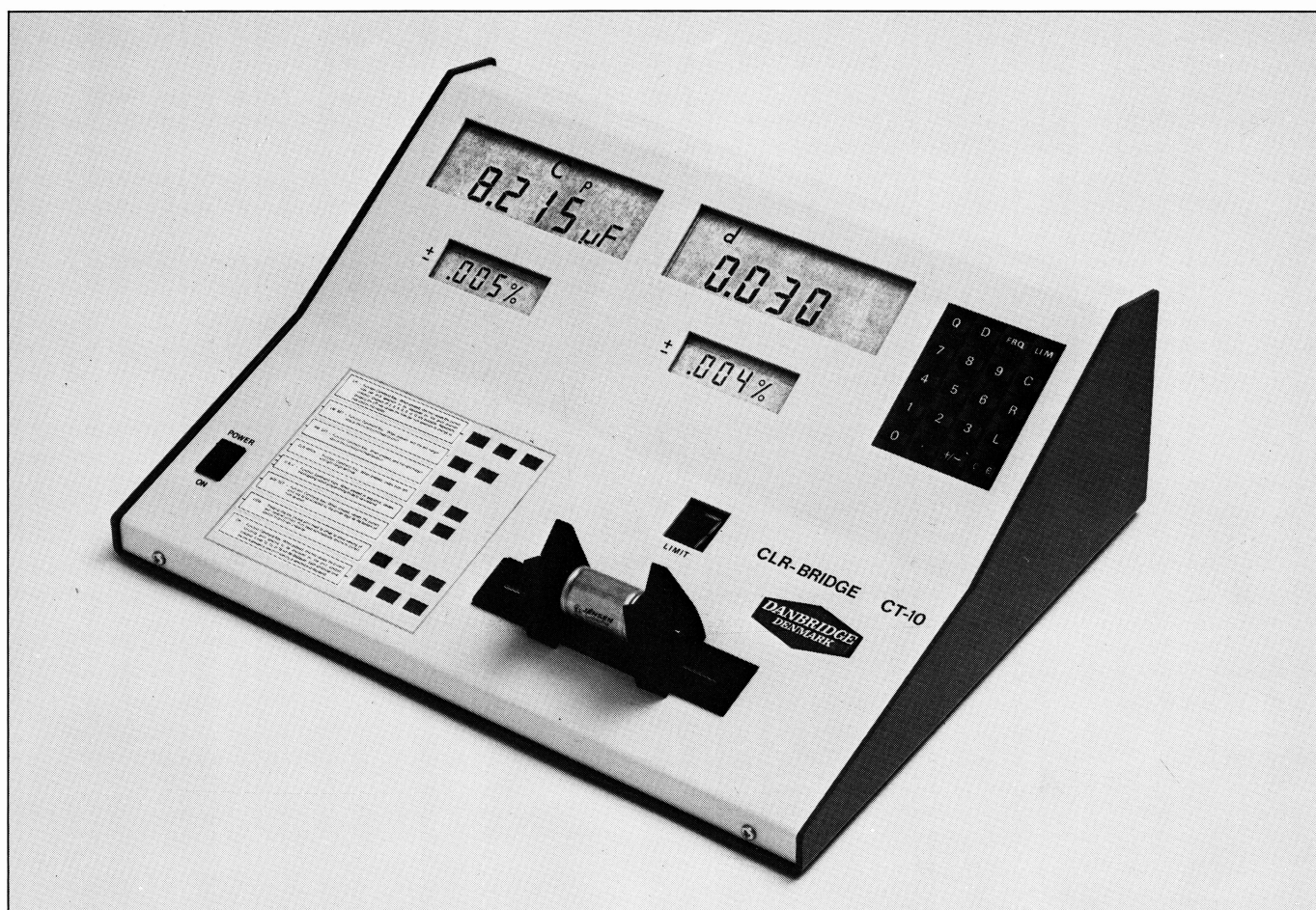


# AUTOMATIC CLR Bridge CT 10

**DANBRIDGE**  
DENMARK



- Automatic measurement of impedance and loss factor
- Measuring frequencies 1 kHz and 111 Hz
- Two 4-digit readouts of measurement
- Two 2½-digit readouts of actual accuracy
- Direct or deviation readings
- Nominal value for deviation by keyboard or external standard
- Ten limits entered by keyboard
- $\mu$ P controlled automatic range selection and autozeroing
- RS232 serial output
- IEC bus interface (optional)
- 4-terminal test fixture with input protection

## General

The DANBRIDGE CT 10 is a microprocessor-controlled instrument for fast and accurate measurement of passive electronic components. The desk-top design and the built-in 4-terminal adjustable test jig makes this a versatile instrument, suitable for QC, goods inward control and smaller production requirements. The CT 10 automatically selects the correct range for any C-L-R component inserted in the test fixture thus eliminating special training of operators.

The two measuring frequencies 1 kHz and 111 Hz are crystal controlled and are switched by use of the keyboard. The main parameters are shown on the upper left-hand LCD display and the secondary parameters on the right-hand display.

The accuracy of each measurement is calculated by the microprocessor and displayed on the two lower displays.

By use of the keyboard the operator can select alternative forms of data, e.g. deviation in percentage or absolute value.

Up to ten limits can be programmed via the keyboard. The limit or bin number is indicated on a single digit display.

The output includes as standard: Limits and Serial Data RS232

An IEC bus interface is available as an option.

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## Preliminary specifications

### Parameters displayed:

Automatic mode:  $C_S$  - D,  $L_S$  - Q, R -  $C_P/L_S$ .

Keyboard selected mode:  $C_P$ ,  $L_P$  - Q, D,  $R_S$ ,  $R_P$ ,  $G_P$ .

$\Delta$  mode: Deviation from nominal value either in % or in absolute value.

### Measuring frequency:

1 kHz and 111 Hz, crystal controlled.

### Range:

C at 1 kHz: 0-999.9  $\mu F$ ,

Ultimate resolution: 0.1 pF

C at 111 Hz: 0-9999  $\mu F$ ,

Ultimate resolution: 1 pF

L at 1 kHz: 10  $\mu H$  - 999.9 H,

Ultimate resolution: 0.01  $\mu H$

L at 111 Hz: 100  $\mu H$  - 9999 H,

Ultimate resolution: 0.1  $\mu H$

R at 111 Hz: 0  $\Omega$  - 100 M $\Omega$

D: 0 - .9999

Q: 1 - 9999, Ultimate resolution: 0.01

### Accuracy:

Basic accuracy of impedance at 1 kHz:

0.1% within the ranges 10 pF - 10  $\mu F$ ,

2 mH - 2000 H and 10  $\Omega$  - 10 M $\Omega$ .

Basic accuracy of D: 0.1% of reading + 5 digits. ( $5 \times 10^{-4}$ ).

### Measuring voltage:

1 V rms down to 80  $\Omega$  impedance,

0.1 V from 80  $\Omega$  to 8  $\Omega$ , linear reduction at lower impedance values.

### Displays:

Two 4-digit LCD with automatic

decimal point,

two 3-digit LCD and

one single-digit LED for test limit sorting.

### Output:

RS232 Serial Data of measurement.

IEC625 (IEEE488) option. Limit signal

output (open collector. 60 V max, 400 mA max.).

### Measuring speed:

Better than 3 per second.

### Automatic control:

Auto-zeroing and auto-ranging, fully controllable either locally by the keyboard or remotely via the optional bus interface.

### Test jig:

Four-terminal measurement of both axially and radially terminated components. Input protection.

### Temperature range:

Operating 15°C to 35°C

Storage -40°C to 75°C

### Dimensions:

H(max): 135 mm, W: 395 mm, D: 300 mm

### Weight:

Approx. 5 kg

### Power requirements:

110-240 V AC 50-60 Hz single phase, 80 VA.

ALL SPECIFICATIONS SUBJECT TO CHANGES WITHOUT PRIOR NOTICE



## danbridge a-s

5, Hirsemarken  
DK-3520 Farum  
Denmark

### Telephone:

National 02 - 95 55 22

International + 45 - 2 - 95 55 22

### Telex:

37579 danbri dk

### Cables:

Danbridge Copenhagen