



DELTA UNITED

L.C.R.Z. Meter  
20Hz~200KHz

#### Applied Features

- Many transformers judgment
- Fixtures for special requirement
- Telescopic keyboard, easy to setting
- Super large LCD display is clearer and more convenient
- Super extendable interface

#### Features

- Measurement frequency:  
20Hz-200KHz, accuracy: 0.02%
- Basic measurement accuracy: 0.1%
- 5 resistance output mode selectable
- 4 measurement fixture, accurate measurement value
- 100 sets of inner meter settings for storage and calling
- Super large 640\*480 LCD display
- Main function selection with dot-matrix prompt
- Flexible digital operation keyboard
- Super extendable interface

# DU-7011 Transformer Tester

Transformer's auto scan measurement  
can improve efficiency substantially

#### Auto scan test:

L , Q , Leakage L , ACR , Cp ,  
DCR , Pin Short , Balance,  
Turn Ratio , Phase , Turn



Supply custom-made fixtures  
for special requirement





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## Composing

- DU-7011 Tester
- DU-7001 20Ch. Scan Box

## Order Information

- DU-7010 Transformer Tester
- DU-7001 20 pins Transformer Scan Test Box

## Standard Fittings

- Fx70-0101 Turn Ratio Test clips
- Fx60-0101 LCR Test clips
- Fx20-0501 Foot control switch
- Fx70-0201 7.5mm Fixture

## Option Accessories

- Fx70-02xx Fixture
- Cr70-GP00 GP-IB Interface
- Cr70-HD00 Handler Interface
- Cr70-RS00 RS-232 Interface
- Cr70-PR00 Printer Interface
- Of70-ME00 100 sets of memory
- Of70-DC01 1A Bias current



Fx70-0101  
Turn Ratio Test clips



Fx20-0501  
Foot control switch



Fx60-0101  
LCR Test clips



Fx70-02xx  
Fixture



## Specifications

| Model             | DU-7011                                                                                                                                                                                                                                                                                                                                                            |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Parameter         | Turn Ratio, Phase, L, Q, Leakage L, ACR, Cp, DCR, Zx, Pin Short, Balance                                                                                                                                                                                                                                                                                           |
| Voltage           | Turn Ratio: 0.1V ~ 10V, $\pm 10\%$ , Resolution: 10mV<br>Other: 0.01V ~ 2.5V, $\pm 10\%$ , Resolution: 10mV                                                                                                                                                                                                                                                        |
| Frequency         | Turn Ratio: 1KHz ~ 200KHz, $\pm 0.02\%$<br>Other: 20Hz ~ 200KHz, $\pm 0.02\%$                                                                                                                                                                                                                                                                                      |
| Output Impedance  | Turn Ratio:<br>10 $\Omega$ , $\pm 5\%$ , when level < 2V,<br>50 $\Omega$ , $\pm 5\%$ when level > 2V<br>Other:<br>Mode 1... 100 $\Omega$ , $\pm 5\%$<br>Mode 2... Varies as range resistor, $\pm 5\%$<br>Mode 3... 25 $\Omega$ , $\pm 5\%$<br>Mode 4... 50 $\Omega$ , $\pm 5\%$                                                                                    |
| Measurement Range | L、LK : 0.0001 mH ~ 1999.9H<br>C : 0.0001 pF ~ 199.99 mF<br>Q : 0.01 ~ 1999.9<br>Z、R : 0.0001 $\Omega$ ~ 99.999 M $\Omega$<br>D : 0.0001 ~ 9.999<br>DCR : 0.01 m $\Omega$ ~ 99.999 M $\Omega$<br>$\theta$ : -90.00° ~ +90.00°<br>Pin Short : 4 ports, each port 11 pairs, between pin to pin<br>Turn : 0.01 ~ 1999.9 turns<br>(Secondary voltage less than 100Vrms) |
| Accuracy          | Turn Ratio: $\pm 0.5\%$ , at 1KHz<br>$\theta$ : 0.03°, at 1KHz<br>D : 0.0005, at 1KHz<br>Other : $\pm 0.1\%$ (1KHz if AC parameter)                                                                                                                                                                                                                                |
| Test Time         | Turn Ratio: 125ms, (Fast test)<br>Other: 65ms, (Fast test)                                                                                                                                                                                                                                                                                                         |
| Judgment          | PASS / FAIL judgment of all test parameters<br>PASS / FAIL judgment output from standard I/O interface                                                                                                                                                                                                                                                             |

|              |                                                                                                                                                                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Display      | 640 x 480 dot-matrix LCD display                                                                                                                                                                                                                        |
| Adjustment   | Open/Short zeroing, Load correction, Load calibration                                                                                                                                                                                                   |
| Memory       | 100 memory for setup, expansion is possible via memory store interface (option)                                                                                                                                                                         |
| Test Circuit | Series、Parallel                                                                                                                                                                                                                                         |
| Trigger Mode | Internal、Manual、External                                                                                                                                                                                                                                |
| Others       | Operation Environment:<br>Temperature 10°C ~ 40°C、<br>Humidity 10% ~ 90% RH<br>Power Consumption:<br>160VA max.<br>Power Requirement:<br>90 ~ 125 Vac / 190 ~ 250 Vac,<br>48 ~ 62Hz<br>Weight: Approx. 10kg<br>Dimension (WxHxD):<br>350 x 210 x 380 mm |

| Model                         | DU-7001                                           |
|-------------------------------|---------------------------------------------------|
| Test Point                    | 20 pins Transformer Scan Test Box                 |
| Trigger Mode                  | 4 - terminal contact                              |
| Control mode                  | START / RESET button                              |
| Pilot Lamp                    | GO/NG                                             |
| Thrust of the pneumatic valve | 1.5 ~ 7.1 kgf / cm <sup>2</sup>                   |
| Control                       | STAR T/ RESET,                                    |
| Signal                        | D-type 9 pin connector                            |
| Environment                   | Temperature 10°C ~ 40°C、<br>Humidity 10% ~ 90% RH |
| Weight                        | Approx. 3.5kg                                     |
| Dimension                     | 270 (W) x 130 (H) x 240 (D) mm                    |

## Transformer Tester

