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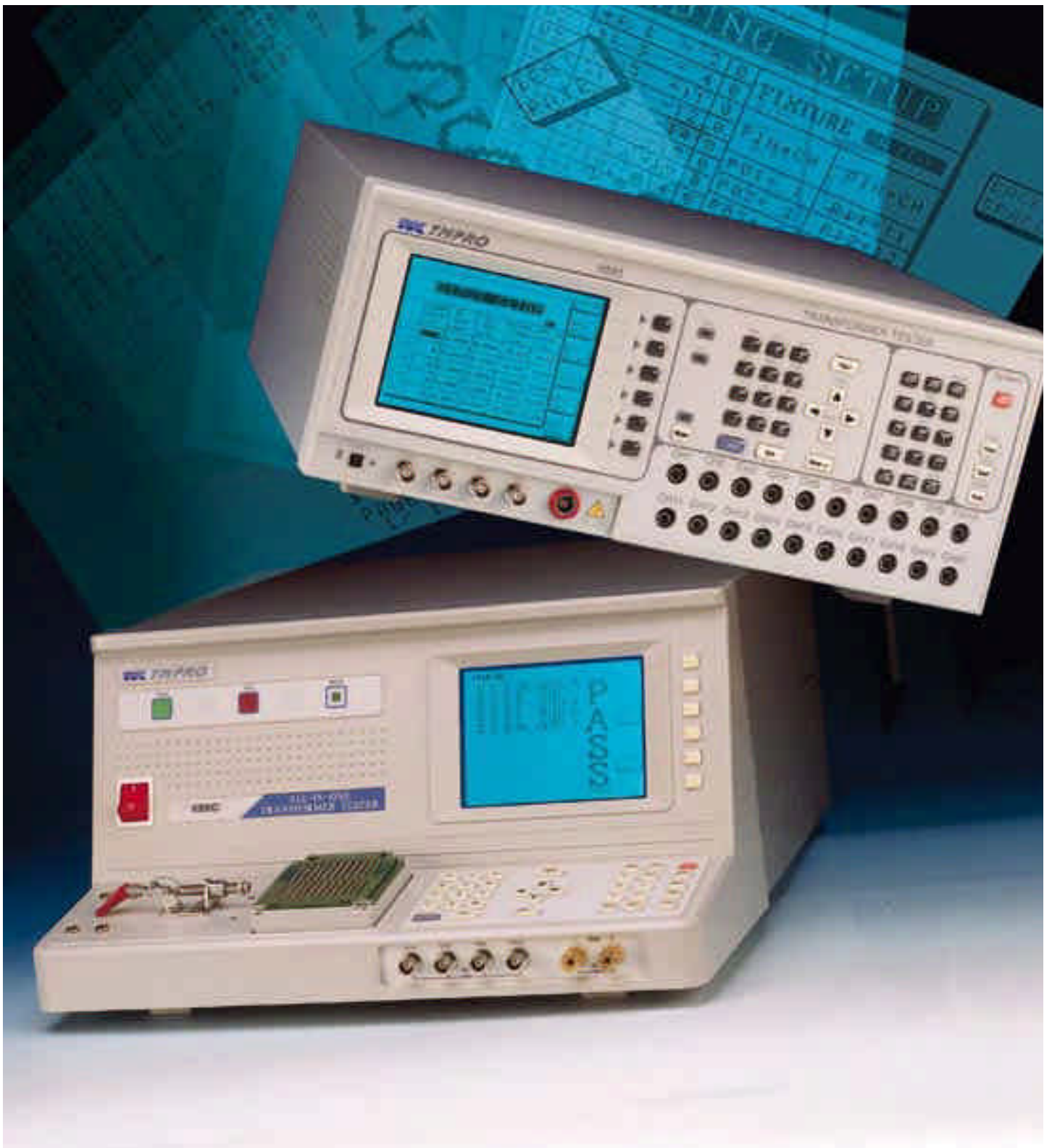
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6885 Transformer Tester &
6890 Automatic Transformer Tester

WK TNP PRO

THE 6885 TRANSFORMER TESTER AI

The complete solution for testing tra

The 6885 Transformer Tester and 6890 Automatic Transformer Tester provide all the capability needed for fast, straightforward and cost effective testing of transformers. In addition the 6885 Transformer Tester has a HIPOT and SURGE capability.



FILE: 12

| | | |
|----------------|---------|----|
| WC 1 > 2> IHD: | 4.832 | PH |
| WC 3 > 4> IHD: | 319.15 | PH |
| WC 1 > 2> O | 6.451 | |
| WC 3 > 4> O | 6.885 | |
| WC 1 > 2> C | 1653.6 | PF |
| WC 3 > 4> C | 54.358 | PF |
| WC 1 > 2> Z | 74.358 | MS |
| WC 3 > 4> Z | 3.297 | MS |
| WC 3 > 4> TR: | +10.187 | T |

The 6885 Transformer Tester provides all the capability needed to completely test a transformer in a manufacturing environment including a 20 node scanner, HIPOT and SURGE high voltage tests, a full range of fixture accessories and a comprehensive range of transformer measurements, including leakage.

KEY FEATURES

- Low cost automatic transformer testers
- Comprehensive transformer measurement functions, including leakage measurements
- High voltage measurements, including HIPOT and SURGE (6885 only)
- Integral 20 node scanner
- Integral ZIF fixture (6890 only)
- 0.5% basic measurement accuracy
- 500kHz useable frequency range
- Simple straight-forward operation
- Ideal in a low and high volume manufacturing environment

Transformer measurements include; DC Resistance (DCR), AC Resistance (ACR), Inductance (L), Leakage Inductance (L.L) Capacitance (C), Impedance (Z), Turns Ratio Quality Factor (Q), Phase Angle (ϕ), Insulation Resistance, HIPOT and SURGE.

A choice of fixtures is available providing ZIF sockets that are controlled manually or automatically using a solenoid device.

The 6890 Automatic Transformer Tester has all the capability of the 6885 Transformer Tester, with the exception of high voltage tests, but in addition has an integrated ZIF fixture, which can be controlled manually or automatically providing a complete turnkey solution to transformer testing.

HIPOT/SURGE

| | HIGH VOLT (V) | TL (V) | TL (V) | WIPOT (V) | WIPOT (V) | WIPOT (V) | WIPOT (V) |
|-----|---------------|--------|--------|-----------|-----------|-----------|-----------|
| PAS | 0 | 0.000 | 0.000 | 0.00 | 0.00 | 0.00 | 0.00 |
| P+C | 0 | 0.000 | 0.000 | 0.00 | 0.00 | 0.00 | 0.00 |
| S+C | 0 | 0.000 | 0.000 | 0.00 | 0.00 | 0.00 | 0.00 |
| P+P | 0 | 0.000 | 0.000 | 0.00 | 0.00 | 0.00 | 0.00 |
| S+P | 0 | 0.000 | 0.000 | 0.00 | 0.00 | 0.00 | 0.00 |

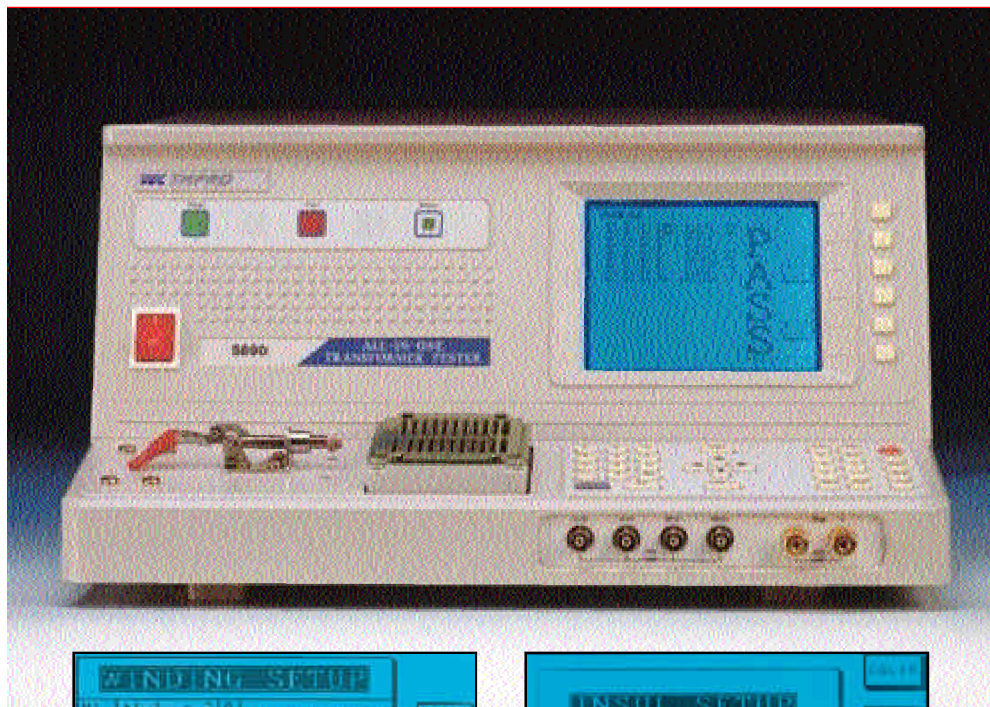
ZIF SETUP

| WINDING | W1 (1, 2) | W2 (3, 4) |
|-----------|-----------|-----------|
| FREQ (Hz) | 1.000K | 1.000K |
| VOLT | 1.000V | 1.000V |
| UNIT | MS | MS |
| NOMINAL | 72.948 | 3.1009 |
| MINIMUM | 65.65 | 2.863 |
| MAXIMUM | 80.24 | 3.498 |
| ADJUST | OFF | OFF |
| DELAY | 0.00ms | 0.00ms |
| DC BIAS | 0.000mA | 0.000mA |

Whatever your manufacturing transformer test requirements are, the 6885 Transformer Tester and 6890 Automatic Transformer Tester provide the answer. Delivering straight-forward simple operation, comprehensive measurement functions and an integrated solution these products really do offer a cost effective solution.

30 AUTOMATIC TRANSFORMER TESTER

Users in a manufacturing environment



| WINDING SETUP | | | |
|---------------|-------|-------|-------|
| M1 | X1-1 | -2-0 | FINCH |
| M2 | X1-2 | -4-0 | FINCH |
| M3 | X1-3 | -6-0 | FINCH |
| M4 | X1-4 | -8-0 | FINCH |
| M5 | X1-5 | -10-0 | FINCH |
| M6 | X1-6 | -12-0 | FINCH |
| M7 | X1-7 | -14-0 | FINCH |
| M8 | X1-8 | -16-0 | FINCH |
| M9 | X1-9 | -18-0 | FINCH |
| M10 | X1-10 | -20-0 | FINCH |
| M11 | X1 | - | FINCH |
| M12 | X1 | - | FINCH |
| M13 | X1 | - | FINCH |
| M14 | X1 | - | FINCH |
| M15 | X1 | - | FINCH |
| M16 | X1 | - | FINCH |

| INSUL SETUP | | | |
|-------------|-------------------|----------------|-------------------|
| | INSUL VOLT (V DC) | INSUL RES (MΩ) | CHARGE TIME (sec) |
| F+2 | 500 | 0.00 | 1.00 |
| F+4 | 1000 | 0.00 | 0.00 |
| S+C | 0 | 0.00 | 0.00 |
| F+8 | 0 | 0.00 | 0.00 |
| F+5 | 0 | 0.00 | 0.00 |

HOW THE PRODUCTS COMPARE.

| Function | 6885 | 6890 |
|------------------------|---|--|
| Frequency Range | 100Hz-100kHz (useable to 500kHz) | 100Hz-100kHz (useable to 500kHz) |
| Basic Accuracy | 0.5% (to 100kHz) | 0.5% (to 100kHz) |
| Drive Voltage | 0.01-2.0VAC (10V DC) | 0.01-2.0VAC (10V DC) |
| Measurement Parameters | DCR, ACR, L, C, Z, Q, Phase Angle, Turns Ratio, Leakage Inductance, Insulation Resistance, HIPOT, SURGE | DCR, ACR, L, C, Z, Q, Phase Angle, Turns Ratio, Leakage Inductance |
| High Voltage | HIPOT, SURGE, Insulation Resistance | N/A |
| Fixture Type | External 20 Terminal (opt) | Integral 20 Terminal (std) |
| Scanner | Integral 20 Node | Integral 20 Node |
| I/O | RS232,printer | RS232,printer |

SPECIFICATIONS

Measurement Parameters

| | | |
|-----|-----|-------|
| DCR | 1mΩ | 100kΩ |
| ACR | 1mΩ | 100kΩ |
| L | 1μH | 10H |
| C | 1pF | 10mF |
| Z | 1mΩ | 100kΩ |

| | | |
|-------------|-------|---------|
| Turns Ratio | 0.001 | 999.999 |
| Q | 0.01 | 999.99 |
| Phase Angle | 0.01° | 90.00° |

Drive Level

| | |
|-------------|--------------------------|
| 0.01-2V RMS | (10mV steps) |
| 0.1-10Vpp | (10mV steps) Turns Ratio |
| 2.5Vdc | DCR |

Basic Accuracy

0.5% (to 100kHz)

Frequency Range

100Hz - 100kHz (10Hz steps)
(useable to 500kHz)

High Voltage (6885 only)

HIPOT 1μA - 9999μA

Drive Level 500-5kVac (1V steps)

Insulation Resistance 1M-1000MΩ

Drive Level 500-3kVdc (1V steps)

Display

320 x 240 LCD

Connections

4- Terminal BNC (meter mode),
20 Independent Terminals
(Transformer Mode).

Interfaces

RS-232, Printer

Dimensions

6885

W 425mm, H 190mm, D 350mm

Temperature Range

15°C - 35°C

Weight

21Kg (6885)

Order Codes

1J6885

Transformer Tester supplied with
Kelvin Leads, Power Cord and
User Manual.

Options

/T 110V/60Hz only

1J6890

Automatic Transformer Tester supplied with
Kelvin Leads, Power Cord and User Manual.

Options

/P 20 Channel Pneumatic Fixture

Accessories

FX-0000C1

4-Terminal Component Fixture

FX-6885M1 (6885 only)

20 Terminal Manual Fixture

FX-6885P1 (6885 only)

20 Terminal Pneumatic Fixture