

# YHPCConnect

**4 & 2 Wire Test Measurement Cable Tester with Hi-Pot  
1500Vdc, 1000Vac – 128 Test Points**

**YHPC-CT9687A-128P**

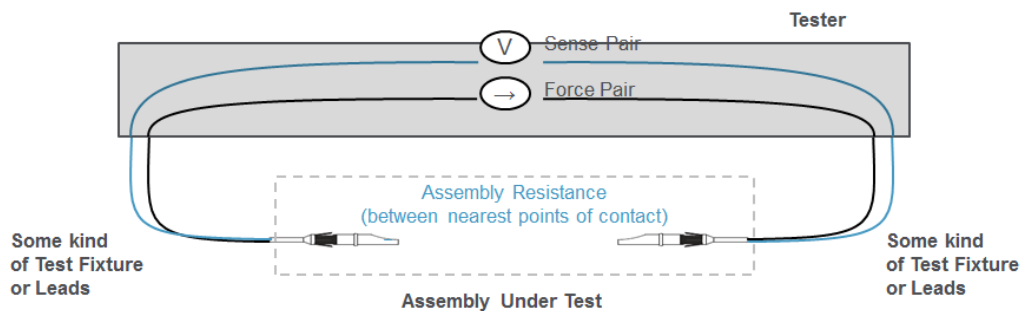
**128 P FOR 2 WIRES TEST**

**64 P FOR 4 WIRES TEST**



## 4 Wire Testing Hypothetical Set-up

4 Wire Testing has been used for industries that require tight control of cable resistance for diagnostic usage in medical applications, communication usage, research & development and also for industries where battery consumption is critical. So what does a hypothetical 4 Wire set-up look like?



**Figure 6: Hypothetical 4 Wire Testing Set-up**

The set-up in Figure 6 allows for the resistance that is being measured to only include the DC Resistance of the Unit Under Test (UUT). The resistance of the test fixture(s) / lead(s) is eliminated from the DC Resistance measurement. You can see that the hook-up of the UUT requires two wire hook-ups for each point of point contact, unlike the past recipe(s) that have historically been used. One can see from Figure 6 that these point to point connections are called: Sense Pair and the other Force Pair. This mechanism will allow for DC Resistance accurate measurements to the 0.001 ohm level vs. the 0.1 ohm level used historically. Many of the cables that are present in Applied Materials have DC Resistance levels in the 100 – 200 m-ohm level.

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## Features

System use 4 wire measurement to give precise value.  
The system provides Chinese and English language.  
System do self check and correction.  
Auto scan and Auto pin search.  
Intermittent Conductance and O/S.  
Can do single end checking.  
Maximum AC1000v / DC 1500v for HI-POT test.  
Maximum 128 test points for 2 Wire Test & 64 test points for 4 Wire Test.  
Large 320X240 LCD display.  
Linear and Safety Test All in one.  
Full Programming Sequence Test.

## ● Test Item

Item	Symbol	Test Range
Open/Short	O/S	1K $\Omega$ ~50K $\Omega$
Intermittent O/S		1K $\Omega$ ~50K $\Omega$
O/S End Judgement		
Conductance	COND	0.1m $\Omega$ ~50 $\Omega$
Intermittent Cond.		0.1m $\Omega$ ~50 $\Omega$
Resistance	R	0.01 $\Omega$ ~10M $\Omega$
Capacitance	C	10pF~1000 $\mu$ F
Zener	Zener	0~7V
Insulation	IR	0.1M $\Omega$ ~1.5G $\Omega$
Hipot	Hipot	Max 5mA

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### Advanced Function

4-Wire Measurement  
Programmable Sequential Test  
Auto Pin Search  
Self Diagnostic  
Self Calibration

### Scanning Mode

Auto/Short Switchable

### Test Signal Information

Output Rating : 5Vdc  
DC Hipot/Insulation  
50 ~ 1500Vdc , 100 ~ 1000Vac  
50V Resolution  
± 1% Accuracy

### Display & Sound

320×240 Graphic LCD Display  
Pass/Fail LED Indicator/LCD Display  
Internal Speaker

### Connection

128 I/O ( 2 Wires ), 64 I/O ( 4 Wires )  
Hipot Calibration (+/-) Output  
Auto Pin Search Jack

### Front Panel Control Buttons

SysKey/FastKey/EditKey/SoftKey

### I /O Interface

RS-232 Port      **OPTIONAL**  
Printer Port      **OPTIONAL**  
Remote Control Port      **OPTIONAL**

### Memory

Flash Memory    512k  
Max 56 Setup Files

### Power Supply

115/230 Vac± 10% Switchable  
60/50 Hz

### Accessory

Remote control cable(Optional)  
RS-232 cable(Optional)  
Power cord  
User's Guide

### Operation Enviroment

Temperature	15°C~40°C
Humidity	RH≤ 75%

### Dimension(WxHxD)

450x190x460mm

### Weight

Approx. 13Kg(Without accessory)

### Cable Capacitance Limit

1μF Max

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