

# V685 Cable/Harness Analyzer



## For Crucial Cable and Harness Test Applications You Need a Comprehensive Cable Test Solution

**The Vitrek V685 is the automatic choice.** It is able to rapidly detect a wide variety of circuit connectivity and insulation defects. While most any cable tester can find opens and shorts, the V685 goes the extra distance to verify insulation integrity. And it does so with three distinct operating modes: AC Voltage Withstand (AC Hipot) up to 1000VRMS, DC Hipot up to 1500VDC and Insulation Resistance measurement up to 1000 Meg ohms.

**The Vitrek V685 can get the job done right.** It has the measurement capability for superior performance

verification on circuit connectivity elements such as: connectors, crimps, solder joints, diodes, relays, resistors and capacitors. The V685 performs all these functional checks on up to 128 test points with a test time as low as 100mS per point – standard.

**The Vitrek V685 gets you up and running in no time.** The intelligent learn mode features auto-scan and pin search. The large LCD graphic display gives you quick and easy access to all test parameters and test data. Overall test results are enunciated with a pass / fail LED indicator and internal speaker. The versatile I/O interface has RS-232, remote, PLC I/O and a printer port.

### Vitrek V685 Benefits

- Hipot to 1500VDC and 1000 VAC RMS
- All-in-1 Tester, R, C, IR, Hipot, O/S, and more...
- Easy to use, with auto-scan and auto-search modes
- Tests up to 128 points
- Large menu driven graphic display
- High speed operation, 100mS per test
- RS-232 and PLC remote programmable
- Built-in statistics and printer port



# V685 Cable/Harness Analyzer Specifications

## Test Functions

Item	Symbol	Test Range
Open/Short	O/S	2K $\Omega$ ~ 50K $\Omega$
Intermittent O/S		2K $\Omega$ ~ 50K $\Omega$
O/S End Judgment		
Conductance	COND	Max. 50.0 $\Omega$
Intermittent Cond.		Max. 50.0 $\Omega$
Resistance	R	Max. 10.0M $\Omega$
Capacitance	C	1pF ~ 1 $\mu$ F
Zener	Zener	0 ~ 7V
Insulation	IR	1M $\Omega$ ~ 1G $\Omega$
Single-End Test		
Hipot	Hipot	Max. 5mA

## Advanced Functions

Programmable Sequential Test  
Auto Pin Search  
Self Diagnostic  
Self Calibration

## Basic Accuracy

$\pm$ 1%

## Scanning Mode

Auto/Short Switchable

## Measurement Time

0.1 SEC Basic

## Test Single Information

Output Rating 5Vdc  
DC Hipot/Insulation 200 ~ 1500Vdc  
100 ~ 1000Vac

50V Resolution  
 $\pm$ 5% Accuracy

## Display and Sound

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

## Connections

128 Test Points  
Hipot Calibration +/- Output  
Auto Pin Search Jack

## Front Panel Control Buttons

SysKey/FastKey/EditKey/SoftKey

## I/O Interface

RS-232 Port  
Printer Port  
Remote Control Port

## Memory

Flash Memory  
Max. 62 Setup Files

## Power Supply

115/230 Vac  $\pm$  10% Switchable  
60/50Hz

## Accessories

Auto Pin DIN-to-Horn Converter  
Remote Control Cable (Optional)  
RS-232 Cable (Optional)  
Power Cord  
User's Guide

## Temperature & Humidity

15 $^{\circ}$ C ~ 35 $^{\circ}$ C  
RH  $\leq$  75%

## Compliance

CE Mark Certified

## Dimensions (WxDxH)

425 x 350 x 190mm / 18 x 14 x 7.5"

## Weight

Approx. 14Kgs / 31 Lbs. (w/o Accessories)

## Cable Capacitance Limit

1 $\mu$ F Max.

## Ordering Information

<b>V685</b>	Cable/Harness Hipot Tester	<del>\$5250</del>
<b>TF-128A</b>	Zif Socket Fixture	\$445

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