

Keysight Technologies

TS-8989 PXI Functional Test System

Maximizing test coverage with Minimum system size

Industries and Applications

- Automotive Electronic Control Unit Test
 - Immobilizers, Electronic Parking Brakes (EPB), Airbag Control Unit, Electronic Clutch Applications (ECA), Body Control Module (BCM)
- Industrial Electronics Test
 - LED Driver Modules

Product Description

The Keysight Technologies, Inc. TS-8989 PXI Functional Test System provides manufacturers with a cost effective, integrated, modular PXI-based measurement and high current switch load unit system in a box.



Product features	Benefit
Integrated PXI Chassis and Switch/Load Unit (SLU)	<ul style="list-style-type: none"> - All in one compact system in a box - Scalable and modular with 8-slots PXI and 11-slots switch or load cards - Can be used as a bench top or integrated into a rack - Space optimization up to 8U rack height
Signal Switching <ul style="list-style-type: none"> - Up to 64 x 4 per matrix card (with Auxiliary) 	<ul style="list-style-type: none"> - Switching speed as fast as 300 μs - Multiple signal and load routing - Long lasting and reliable switching connections up to 100 million operation cycles
High Current Load Switching <ul style="list-style-type: none"> - Up to 40 A 8-channels per load card - Up to 48-channels 2 A per load card - Three types of load cards - Current sense capability - Flyback protection 	<ul style="list-style-type: none"> - Enable connections to internal and externally defined loads (resistive, capacitive and inductive) for load simulation (e.g. motor) - Available in Single-load, Dual-load, Quad-load types - Flexible for Pull Up/Down Loads, Bridge Loads, Multiplexing Loads
Measurement <ul style="list-style-type: none"> - 6.5 digits M9183A Digital Multimeter 	<ul style="list-style-type: none"> - Fast measurement speed up to 15,000 reading per second - High precision with basic DCV accuracy 90 ppm

Product features	Benefit
Test Sequencer <ul style="list-style-type: none"> - Keysight TestExec SL as default test executive 	<ul style="list-style-type: none"> - TestExec SL is a manufacturing test sequencer help to accelerate program development and test integration. - TS-8989 is compatible with any other test sequencers that support C and IVI-C, IVI-COM driver

Specifications

Hardware	
PXI chassis	8 slots (cPCI, PXI-1)
Switch/load unit	11-slots with integrated 8-ch DIO, \pm 12 V fixed DC supply
Dimension in mm	483.85 (W) x 372.06 (H) x 543.14 (D)
Base configuration	<ul style="list-style-type: none"> - 1 E87x2A pin matrix and instrument card - 1 M918xA 6.5-digit DMM - 1 U8989A-PCx industrial or embedded PC controller with test sequencer and action library
Software	
Operating system	Windows 7 Professional 64-bit
Test sequencer	TestExec SL v7.1 with TS-5000 v7.1 library
Included hardware drivers	C or IVI-C, IVI-COM

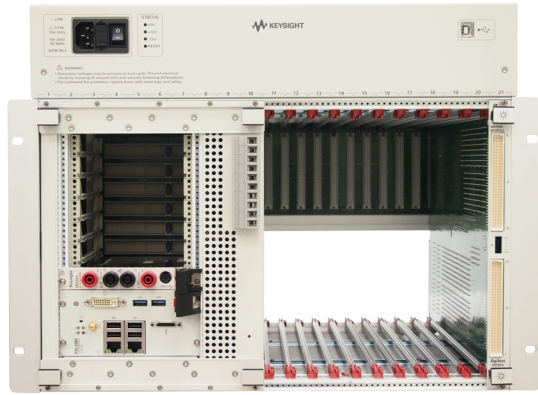


Figure 1. U8989A – front

Model	Description
U8989A	TS-8989 PXI Functional Test System

PXI Instrument Options	
U8989A-310	M9182A PXI digital multimeter and cable
U8989A-311	M9183A PXI digital multimeter and cable
U8989A-330	M9216A 32-channel data acquisition and cable
U8989A-335	M9185A 8-channel digital/analog converter and cable
U8989A-336	M9185A 16-channel digital/analog converter and cable
U8989A-340	M9186A voltage/current source and cable
U8989A-350	M9187A 32-channel digital input/output and cable

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 PCI eXtensions for Instrumentation (PXI) modular instrumentation delivers a rugged, PC-based high-performance measurement and automation system.



Three-Year Warranty
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Ordering Information

Keysight offers a variety of configuration options for the TS-8989 to suit different product applications. Please contact your Keysight sales representative for the best option to suit your needs.

Pin Matrix Card Options

E8782A-FG	TS-5400 SLU pin card with instrumentation matrix 24 instrument, 40 measurement
E8783A-FG	TS-5400 SLU pin card 64x4 measurement matrix
E8792A-FG	TS-5400 SLU pin card with instrumentation matrix 16 instrument, 32 measurement
E8793A-FG	TS-5400 SLU pin card 32x4 instrumentation matrix

Load Card Options

E6175A-FG	8-channel 7.5 A load card
E6176A-FG	16-channel 7.5 A load card
E6177A-FG	24-channel 2 A load card (without current sense)
E6178B-FG	8-channel 30 A load card
N9377A-FG	Dual-load 16-channel 7.5 A load card
N9378A-FG	Quad-load 24-channel 2 A load card
N9379A-FG	Dual-load 48-channel 2 A load card
U7177A-FG	24-channel 2 A load card (with current sense)
U7178A-FG	8-channel 40 A load card
U7179A-FG	16-channel 15 A load card

Advantage Services: Calibration and Warranty

Keysight Advantage Services is committed to your success throughout your equipment's lifetime.

R1992B	Board Functional Test System Warranty and Service Plans
R-9MW-101-3EG	3-year Return to Keysight Warranty, 8x5 Cooperative Support with next business day field replaceable parts and 8x5 HW Phone Support for Board Functional Test Systems

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