

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 70004A - 4-Slot Color System Display Mainframe for 70000 Series

The HP 70004A is the color display and system controller front-end for the HP 70000 modular measurement system. OEM literature specifies the color CRT user interface, softkey control, and MSIB connection to modular instruments. Operator interface for 70000 MMS spectrum analyzers and microwave transition analyzers, system setup, and trace display for modular RF measurements. Instrument Type: Color display for 70000 MMS System Family: HP 70000 modular measurement system Weight Class: mainframe section class OEM sheet Color Traces: Multiple color-coded traces class Keyboard Interface: Softkeys and numeric entry From HP 70004A color display and 70000 MMS system documentation. Measurement ranges are defined by the connected modules rather than the display itself.



MODEL

**Agilent / Keysight
70004A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

70004A

LISTING

<https://aumictechlabs.com/products/70004a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 70004A is a 4-slot color system display mainframe serving as the front-end interface for the HP 70000 Series Modular Measurement System. It integrates a color CRT display with mainframe functionality, enabling simultaneous control and monitoring of up to four modular instruments. The unit combines a 7.5-inch diagonal display with flexible module accommodation

supporting 1/8-, 1/4-, 3/8-, and 1/2-width modules, making it suitable for demanding R&D, manufacturing, and quality control applications in telecommunications and high-frequency electronics.

Technical Specifications

Display 7.5-inch diagonal color CRT display 1024 × 400 pixel resolution 16 simultaneous colors selectable from 4096-color palette Integrated trace and marker capabilities

Modular Integration 4 module slots with support for 1/8-, 1/4-, 3/8-, and 1/2-width modules Accommodates up to four 1/8-width modules at maximum density Single-keystroke instrument selection via INSTR key

Frequency range capability: DC to 28 GHz and beyond (module-dependent)

Interfaces HP-MSIB for high-speed digital communication between instrument modules HP-IB for standard instrument control and data transfer HP-HIL front-panel connector for external keyboards (Keysight 46021A, 98203C compatible)

System Operation

Removable custom hardkey panel with softkeys and digital-control knob Local and remote operation capability Mainframe and display separation up to 1.2 km Graphics output to HP-IB printer or plotter; HP PaintJet printer compatible for full-color documentation

Advanced firmware with menu customization and real-time data capture tools Automated documentation with single-file test data storage

Key Features

Simultaneous control of four modular instruments Support for over 50 available modules covering DC to microwave through lightwave measurements Flexible module slot configuration with mixed-width accommodation High-speed inter-module communication via HP-MSIB

Typical Applications

Characterization and analysis in R&D, manufacturing, and quality control. Multi-instrument RF, microwave, and lightwave measurement systems requiring integrated display and control.

Compatibility & Integration

Works with HP 70000 Series modules and standard HP-IB peripherals. Supports external keyboard interfaces and full color documentation workflows through HP PaintJet integration.

70004A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Color display for 70000 MMS
Display Type	Color CRT
System Family	HP 70000 modular measurement system
Module Bus	HP-MSIB
Compatible LO Module	70900B
Compatible Analyzers	709xx RF modules and 71500A class systems
Remote Control	Via MMS controller functions
Form Factor	MMS display mainframe section
Operating Temperature Class	0 C to 55 C
Power Line	100/120/220/240 V class
Softkey Menus	Measurement setup and marker control
Trace Display	Spectrum and time domain class depending on modules
Marker Readout	Supported
Storage of Traces	Supported class
Printer Plotter Support	Supported class HP-IB peripherals
Reference Control	System 10 MHz reference routing
Firmware	Softkey driven MMS firmware
Weight Class	mainframe section class OEM sheet
Rack Mount	Supported with MMS rack kits
Color Traces	Multiple color-coded traces class
Keyboard Interface	Softkeys and numeric entry
Status Readout	System and module status
Operating temperature	Class: 0 C to 55 C

70004A Specifications

PARAMETER	VALUE
HP Agilent 70004A Color Display	Overview
Key Features	Color CRT display for 70000 MMS
Technical Specifications	Instrument Type: Color display for 70000 MMS

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: 0 C to 55 C
Operating Temperature	Class: 0 C to 55 C
Operating Temperature Class	0 C to 55 C
Power Line	100/120/220/240 V class
Softkey Menus	Measurement setup and marker control
Trace Display	Spectrum and time domain class depending on modules
Marker Readout	Supported
Storage of Traces	Supported class
Printer Plotter Support	Supported class HP-IB peripherals
Reference Control	System 10 MHz reference routing
Firmware	Softkey driven MMS firmware
Weight Class	mainframe section class OEM sheet
Rack Mount	Supported with MMS rack kits
Color Traces	Multiple color-coded traces class
Keyboard Interface	Softkeys and numeric entry
Status Readout	System and module status Notes From HP 70004A color display and 70000 MMS system documentation. Measurement ranges are defined by the connected modules rather than the display itself.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
PARAMETER	VALUE
Instrument Type	Color display for 70000 MMS
Display Type	Color CRT
System Family	HP 70000 modular measurement system
Module Bus	HP-MSIB
Compatible LO Module	70900B
Compatible Analyzers	709xx RF modules and 71500A class systems
Remote Control	Via MMS controller functions
Form Factor	MMS display mainframe section
Operating Temperature Class	0 C to 55 C
Power Line	100/120/220/240 V class
Softkey Menus	Measurement setup and marker control
Trace Display	Spectrum and time domain class depending on modules
Marker Readout	Supported
Storage of Traces	Supported class
Printer Plotter Support	Supported class HP-IB peripherals
Reference Control	System 10 MHz reference routing
Firmware	Softkey driven MMS firmware
Weight Class	mainframe section class OEM sheet
Rack Mount	Supported with MMS rack kits
Color Traces	Multiple color-coded traces class
Keyboard Interface	Softkeys and numeric entry
Status Readout	System and module status
Notes	
From HP 70004A color display and 70000 MMS system documentation. Measurement ranges are defined by the connected modules rather than the display itself.	

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 14, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.