

SERVICE BRIEF

HEWLETT-PACKARD

MODEL 10269A

GENERAL PURPOSE INTERFACE

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COLORADO SPRINGS, COLORADO, U.S.A.

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CERTIFICATION

Hewlett-Packard Company certifies that this product met its published specifications at the time of shipment from the factory. Hewlett-Packard further certifies that its calibration measurements are traceable to the United States National Bureau of Standards, to the extent allowed by the Bureau's calibration facility, and to the calibration facilities of other International Standards Organization members.

WARRANTY

This Hewlett-Packard instrument product is warranted against defects in materials and workmanship for a period of one year from date of shipment. During the warranty period, HP will, at its options, either repair or replace products which prove to be defective.

For Warranty service or repair, this product must be returned to a service facility designated by HP. Buyer shall prepay shipping charges to HP and HP shall pay shipping charges to return the product to Buyer. However, Buyer shall pay all shipping charges, duties, and taxes for products returned to HP from another country.

HP warrants that its software and firmware designated by HP for use with an instrument will execute its programming instructions when properly installed on that instrument. HP does not warrant that the operation of the instrument, or software, or firmware will be uninterrupted or error free.

LIMITATION OF WARRANTY

The foregoing warranty shall not apply to defects resulting from improper or inadequate maintenance by Buyer, Buyer-supplied software or interfacing, unauthorized modification or misuse, operation outside of the environmental specifications for the product, or improper site preparation or maintenance.

NO OTHER WARRANTY IS EXPRESSED OR IMPLIED. HP SPECIFICALLY DISCLAIMS THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

EXCLUSIVE REMEDIES

THE REMEDIES PROVIDED HEREIN ARE BUYER'S SOLE AND EXCLUSIVE REMEDIES. HP SHALL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WHETHER BASED ON CONTRACT, TORT, OR ANY OTHER LEGAL THEORY.

ASSISTANCE

Product maintenance agreements and other customer assistance agreements are available for Hewlett-Packard products.

For any assistance, contact your nearest Hewlett-Packard Sales and Service Office. Addresses are provided at the back of this manual.

SAFETY SUMMARY

The following general safety precautions must be observed during all phases of operation, service, and repair of this instrument. Failure to comply with these precautions or with specific warnings elsewhere in this manual violates safety standards of design, manufacture, and intended use of the instrument. Hewlett-Packard Company assumes no liability for the customer's failure to comply with these requirements.

GROUND THE INSTRUMENT.

To minimize shock hazard, the instrument chassis and cabinet must be connected to an electrical ground. The instrument is equipped with a three-conductor ac power cable. The power cable must either be plugged into an approved three-contact electrical outlet or used with a three-contact to two-contact adapter with the grounding wire (green) firmly connected to an electrical ground (safety ground) at the power outlet. The power jack and mating plug of the power cable meet International Electrotechnical Commission (IEC) safety standards.

DO NOT OPERATE IN AN EXPLOSIVE ATMOSPHERE.

Do not operate the instrument in the presence of flammable gases or fumes. Operation of any electrical instrument in such an environment constitutes a definite safety hazard.

KEEP AWAY FROM LIVE CIRCUITS.

Operating personnel must not remove instrument covers. Component replacement and internal adjustments must be made by qualified maintenance personnel. Do not replace components with power cable connected. Under certain conditions, dangerous voltages may exist even with the power cable removed. To avoid injuries, always disconnect power and discharge circuits before touching them.

DO NOT SERVICE OR ADJUST ALONE.

Do not attempt internal service or adjustment unless another person, capable of rendering first aid and resuscitation, is present.

DO NOT SUBSTITUTE PARTS OR MODIFY INSTRUMENT.

Because of the danger of introducing additional hazards, do not install substitute parts or perform any unauthorized modification of the instrument. Return the instrument to a Hewlett-Packard Sales and Service Office for service and repair to ensure that safety features are maintained.

DANGEROUS PROCEDURE WARNINGS.

Warnings, such as the example below, precede potentially dangerous procedures throughout this manual. Instructions contained in the warnings must be followed.

WARNING

**Dangerous voltages, capable of causing death, are present in this instrument.
Use extreme caution when handling, testing, and adjusting.**

1. DESCRIPTION.

2. The HP General Purpose Probe Interface, Model 10269A, provides a convenient method of connecting HP 1630A/D Logic Analyzers to digital systems. Connection to a user's system is through a Dedicated Interface card. The Dedicated Interface card (or Preprocessor) allows you to define which system signals are supplied to the analyzer. Refer to Table 1 for specifications and instrument compatibility.

3. OPTIONS.

4. Refer to Table 2, Replaceable Parts for the Dedicated Interface card options available.

Table 1. Specifications

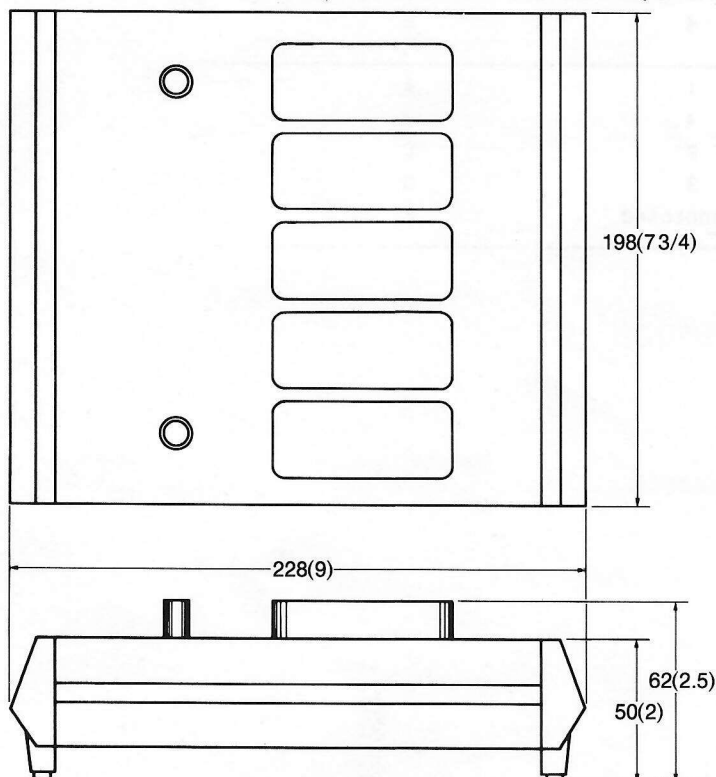
INPUT CONNECTORS: Two 60-pin connectors to interface with the Dedicated Interface card.

Two BNC connectors: one auxiliary and one accessory power for a regulated +5 volt supply.

OUTPUT CONNECTORS: Five data connectors for 1630A/D Logic Analyzers with Model 10271A and 10272A Probes.

GENERAL: Weight: 0.75 kg (1.7 lb)
Dimensions: see outline drawing.

INSTRUMENT COMPATIBILITY: Model 10269A Interface for 1630A/D Logic Analyzer.



10269A DIMENSIONS

5. APPLICATIONS.

6. CONNECTION TO SYSTEMS. The 10269A has two 60-pin connectors which allow connection to Dedicated Interface card options (order separately). The Dedicated Interface cards have a variety of connectors and cables available for direct connection to sockets in a user system. The 1630A/D Logic Analyzer probes plug directly into connectors on the 10269A interface; this eliminates the need for individual probe lead connections.

7. INSTALLATION.

- a. Connect W1 from J4 on the General Purpose Interface card in the 10269A to J4 on the dedicated Processor Interface Card option.
- b. Connect W2 from J3 on the General Purpose Interface card in the 10269A to J3 on the dedicated Processor Interface Card option.
- c. Fit the dedicated Processor Interface Card assembly into hinge slots on the 10269A General Purpose Probe Interface Pod. Lower the cover and fasten down with screws.
- d. Plug the 1630A/D Logic Analyzer Probes into the following 10269A Probe connectors for a 16-bit or 8-bit Dedicated Interface card:

	1630A/D Probes	10269A Probe connector
	0	A
16-bit processor	1	B
	2	C
	3	D
	4	E
	1	A
8-bit processor	4	B
	2	C
	3	D
	not connected	E

Table 2. Replaceable Parts

REFERENCE DESIGNATION	HP PART NO.	CKDGT	QTY	DESCRIPTION	MFR. CODE	MFR. PART NUMBER
A1	10269-66501	4	1	INTERFACE BOARD	28480	10269-66501
H1	2200-0107	6	4	SCREW-MACH 4-40 .375-IN-LG PAN-HD-POZI	28480	2200-0107
H2	2200-0512	7	8	SCREW-MACH 4-40 .312-IN-LG 83 DEG	28480	2200-0512
MP1	10269-04101	0	1	TOP COVER	28480	10269-04101
MP2	10269-04102	1	1	BOTTOM COVER	28480	10269-04102
P/O MP2	0403-0179	0	4	BUMPER FOOT - ADH MTG	28480	0403-0179
MP3	64232-60201	9	2	ENDCAP ASSEMBLY	28480	64232-60201
	7121-1780	0	1	GENERAL 16-BIT LABEL	28480	7121-1780
	7121-4012	7	1	GENERAL PURPOSE PROBE LABEL	28480	7121-4012
OPT	10269A/053		1	8086/8088 INTERFACE	28480	10269A/053
OPT	10269A/055		1	8085 INTERFACE	28480	10269A/055
OPT	10269A/070		1	68000 INTERFACE	28480	10269A/050
OPT	10269A/080		1	Z8001 INTERFACE	28480	10269A/080
OPT	10269A/081		1	Z8002 INTERFACE	28480	10269A/081
OPT	10269A/083		1	Z80 INTERFACE	28480	10269A/083
OPT	10269A/109		1	USER DEFINED INTERFACE	28480	10269A/109
OPT	10269A/110		1	USER DEFINED INTERFACE/40	28480	10269A/110
OPT	10269A/111		1	USER DEFINED INTERFACE/48	28480	10269A/111
OPT	10269A/112		1	USER DEFINED INTERFACE/64	28480	10269A/112

Table 3. List of Manufacturer's Codes

MFR. NO.	MANUFACTURER NAME	ADDRESS	ZIP CODE
28480	HEWLETT-PACKARD CO. CORPORATE HQ	PALO ALTO CA	94304

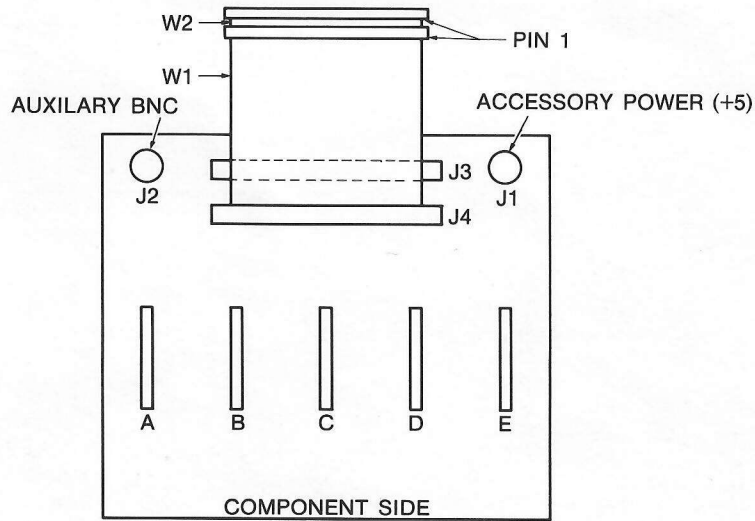


Figure 1. 10269A Component Locator

Table 4. 10269A Signal Distribution

J3 Pin #	CONNECTIONS	J4 Pin #	CONNECTIONS
1	NC	1	C:0
2	NC	2	C:1
3	NC	3	C:2
4	NC	4	C:3
5	NC	5	C:4
6	NC	6	C:5
7	NC	7	C:6
8	NC	8	C:7
9	NC	9	C:8
10	NC	10	D:0
11	NC	11	J1: CENTER
12	NC	12	J1: CENTER
13	B: GND	13	D: 1
14	B: GND	14	D: 2
15	NC	15	D: 3
16	NC	16	D: 4
17	C: CLOCK	17	D: 5
18	NC	18	D: 6
19	A: CLOCK	19	D: 7
20	NC	20	D: 8
21	D: CLOCK	21	E: 0
22	NC	22	E: 1
23	B&E: CLOCK	23	J1: CENTER
24	NC	24	J1: CENTER
25	NC	25	J1: GND
26	NC	26	J1: GND
27	NC	27	J1: GND
28	NC	28	J1: GND
29	NC	29	C: GND
30	NC	30	C: GND
31	NC	31	D: GND
32	NC	32	D: GND
33	NC	33	D: GND
34	NC	34	E: GND
35	NC	35	E: GND
36	NC	36	E: GND
37	NC	37	J2: GND
38	A: GND	38	J2: GND
39	A: GND	39	E: 2
40	A: GND	40	E: 3
41	A: 8	41	NC
42	B: 8	42	E: 4
43	NC	43	E: 5
44	NC	44	E: 6
45	A: 0	45	E: 7
46	A: 1	46	E: 8

See Key For More Information

Table 4. 10269A Signal Distribution Cont'd

J3 Pin #	CONNECTIONS	J4 Pin #	CONNECTIONS
47	A:2	47	NC
48	A:3	48	NC
49	A:4	49	J2:CENTER
50	A:5	50	J2:CENTER
51	A:6	51	NC
52	A:7	52	NC
53	B:0	53	NC
54	B:1	54	NC
55	B:2	55	NC
56	B:3	56	NC
57	B:4	57	NC
58	B:5	58	NC
59	B:6	59	NC
60	B:7	60	NC
60	B:7	60	NC

*****KEY*****

NC = Not Connected

X:# X = 10269A probe connector A,B,C,D, or E
= The 10269A Probe connector pin number
For example:

A:7 A = 10269A probe connector A
7 = Pin 7 of 10269A probe connector A

J2:CENTER or GND = Auxiliary BNC center or ground

J1:CENTER or GND = Accessory Power BNC center or ground