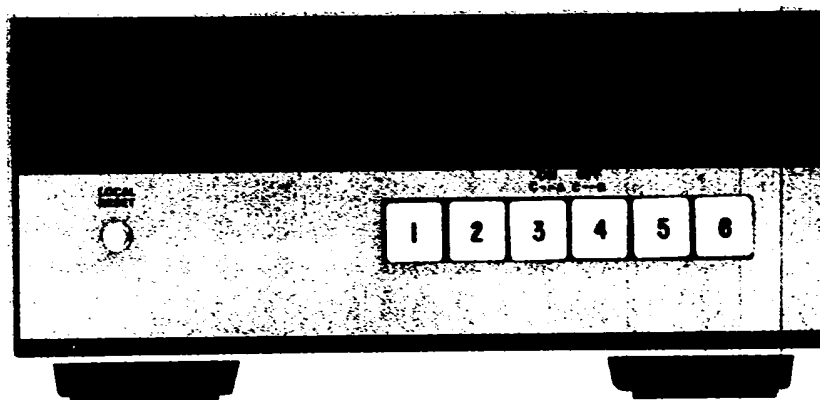


OPERATING AND SERVICE MANUAL

# RELAY ACTUATOR

59306A



 **HEWLETT  
PACKARD**

## SECTION I

### GENERAL INFORMATION

#### 1-1. INTRODUCTION

1-2. This section provides general information on the HP 59306A Relay Actuator including an instrument description, equipment supplied, instrument specifications, and signal mnemonics.

#### 1-3. DESCRIPTION

1-4. The HP 59306A Relay Actuator contains six relays. The state of each relay can be controlled locally by front-panel pushbutton switches or remotely by programming information on the HP Interface Bus. Using either method, the relays may be used to control external devices such as electrically controlled attenuators, switches, or other devices. The front-panel pushbuttons illuminate or extinguish to indicate the state of each relay.

#### 1-5. INSTRUMENT IDENTIFICATION

1-6. Each Hewlett-Packard instrument has a ten-character serial number (e.g., 0000A00000). The four-digit serial prefix identifies a group of identical instruments, and the five digit suffix is a serial number unique to each instrument. If the serial prefix on your instrument is not on the title page of this manual, your instrument is different from this manual. A manual change sheet is included with this manual to describe the differences. If the manual change sheet is missing, request one from the nearest Hewlett-Packard Sales and Service office listed at the back of this manual.

#### 1-7. EQUIPMENT SUPPLIED

1-8. Table 1-1 lists the equipment supplied with the 59306A.

Table 1-1. Equipment Supplied

Description	HP Part Number
Detachable Power Cord 7½ ft. (231 cm) long	8120-1378
HP Interface Bus Interconnect Cable	10631A

#### 1-9. SPECIFICATIONS

1-10. Specifications for the 59306A are given in Table 1-2.

Table 1-2. Specifications

##### ELECTRICAL:

Load on bus: 3.3 mA per line

Relay settling time: 50 ms

Relay contacts: 0.5 amp at 28 Vdc or 115 Vac

Power requirements: 115V or 230V  $\pm$  10%, 50 to 400 Hz, 10 VA max  
*continued*

Table 1-2. Specifications (Continued)

**ENVIRONMENTAL:** Operating temperature 0 to 50°C.

**DIMENSIONS:**

**Height:** 4 inches (101,6 mm) including cabinet feet.

**Width:** 8.38 inches (212,9 mm)

**Depth:** 11.6 inches (294,6 mm)

**WEIGHT:**

**Net Weight:** 5 lb. 13 oz. (2,64 kg)

**Shipping Weight:** 7 lb. 2 oz. (3,23 kg)

**1-11. SIGNAL MNEMONICS**

1-12. Table 1-3 is a list of signal mnemonics for the 59306A.

Table 1-3. Signal Mnemonics

MNEMONIC	NAME
ADDR .....	Address
AORB .....	A or B
CLK .....	Clock
<u>CLK</u> .....	"Not" Clock
CLR .....	"Not" Clear
DAC .....	Data Accepted
DAV .....	Data Valid
DIO .....	Data Input/Output
ENABLE .....	Enable
EOP .....	End Output
HSENABLE .....	Handshake Enable
HSOUT .....	Handshake Out
LLO .....	Local Lockout
<u>LLO</u> .....	"Not" Local Lockout
MRE .....	Multiple Response Enable
<u>MRE</u> .....	"Not" Multiple Response Enable
REMOTE .....	Remote
REN .....	Remote Enable
RFD .....	Ready for Data