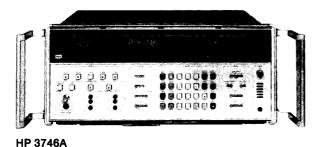
506

TELECOMMUNICATIONS TEST EQUIPMENT

Selective Level Measuring Set, Access/Distribution Switches Models 3746A, 3754A, 3755A, 3756A, 3757A

HP 3746A

- Fast, accurate measurements on frequency division multiplex (FDM) systems
- Selective filters for pilot, channel and (optionally) group power and weighted noise measurements
- Automatic tuning to stored frequency plans with comparison of measured level to stored limits



HP 3746A Selective Level Measuring Set (SLMS) (50 Hz to 32 MHz)

The HP 3746A SLMS makes fast, accurate selective level measurements. A built-in synthesiser gives high tuning accuracy and 1 Hz resolution across the entire 50 Hz to 32 MHz frequency range. Tuning can be performed by: entering a single frequency, stepping between frequency limits, stepping through a set of unrelated frequencies, or by FDM plan description.

The instrument's measurement filters are purpose designed for FDM testing. The flat-topped 3.1 kHz channel filter extracts a voice channel while rejecting adjacent carriers, pilots and other traffic. The 38 Hz pilot filter is flat topped over 22 Hz so AFC is not required, but rejects adjacent tones so that carrier leak can be tested on an active system. A built-in counter can be used to check tone frequencies. Options include: group power, C-message or psophometric noise measurements, noise-with-tone, phase jitter and single-level impulse noise.

The SLMS is optimised for FDM maintenance measurements and network monitoring. It has built-in "intelligence" to allow scanning of FDM signals and limit checking of measured levels. Special hottone search routines can rapidly detect high-level signals (See Application Note AN 323). The SLMS can directly control access switches for system applications, and has a built-in real-time clock and printer drivers for data logging. It is fully HP-IB programmable, and can be used as the heart of a self-contained measurement system, or integrated into a computer-controlled systems such as the HP 37050S FDM Network Monitoring System or HP 37051S Measurement Systems

Ordering Information HP 15580A Active Probe	Price \$490
HP 15582A Return Loss Kit	\$710
HP 15589A Instrument Cart	\$830
HP 3746A Options	
001: Siemens series 1.6/5.6 mm 75 ohm connectors	N/C
005: WECO 477B/223A (equivalent) connectors	\$70

\$1,150

\$360

\$760

\$520

\$520

011: 48 kHz group filter

012: tracking generator

014: high stability frequency reference

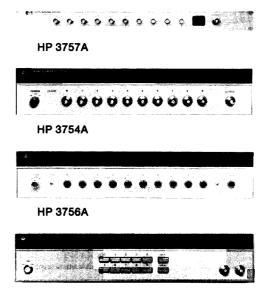
016: channel impairments - North America

015: channel impairments - CCITT

HP 3746A Selective Level Measuring Set	\$13,600

HP 3754A, 3755A, 3756A, 3757A

- Select 1 from a possible 10 RF inputs/outputs
- Cascade up to 111 switches to allow selection from 1000 inputs/outputs
- Mix different switches for the most cost-effective solution



HP 3755A

HP 3754A, HP 3756A, HP 3757A Switches and HP 3755A Switch Controller

The HP 3754A, 3756A and 3757A Switches and the HP 3755A Switch Controller have been developed to meet the requirements of four main areas:

- Frequency division multiplex (FDM) system surveillance and maintenance - the switch arrangement is used in conjunction with a selective level measuring set (SLMS), such as the HP 3746A, to monitor pilot and traffic levels at various points in the multiplex. The HP 3746A SLMS can control the access switches directly without needing the HP 3755A Switch Controller.
- Production testing where automatic selection or distribution of RF signals is required.
- IF access and distribution 70 MHz IF signals can be switched using the HP 3756A for connection to the HP 3717A 70 MHz Modulator/Demodulator.
- Access and distribution of digital communications signals up to 34 Mb/s (CEPT) or 44.7 Mb/s (DS-3).

Options: The standard versions of these switches have BNC connectors and 75 ohm terminations. Different connectors are available as options on some models and 50 ohm versions are available as options or to special order on all models - see data sheet for full details.

Ordering Information	Price
HP 3754A 25 MHz Access Switch	\$2,900
HP 3755A Switch Controller	\$2,800
HP 3756A 90 MHz Bi-directional Switch	\$3,600
HP 3757A 8.5 MHz Access Switch	\$1.150