

1. GENERAL

1.1. INTRODUCTION

PM 5192 is a cost-effective multifunctional combination of programmable frequency synthesizer and function generator. The microprocessor control enables simple and rapid operation and allows parameter sets to be stored and recalled. Up to 10 set-ups may be stored in non-volatile registers, each of them containing parameters to set wave form, frequency, amplitude, dc-offset and modulation modes like AM, FM, SWEEP and GATING.

PM 5192 frequency range covers 11 decades, from 0,1 mHz to 20 MHz. And to make working with this high precision instrument as simple as possible 5 different wave forms are directly selectable. That includes standard functions like sine, square wave, sawtooth and ramps.

High precision and stability are essential factors in this instrument. With a crystal oscillator that serves as a reference standard for all generated frequencies, a high standard of accuracy is achieved. Together with outstanding long-term stability, ensuring that today's signals can always be reproduced precisely.

Frequency resolution is 8 digits, so that full advantage can be taken of the instrument's high precision, for example in the identification and measurement of phenomena occurring at precisely defined frequencies.

IEEE/IEC bus compatibility adds an important extra dimension to PM 5192's versatility. All functions are remotely selectable, and all settings and status data can be transmitted to a remote controller and recalled whenever required.

Completing its impressive specification, PM 5192 combines powerful user features with operation that could not be simpler. The front panel is divided into clear, separate keypad areas, and three LED displays show together with the key LEDs frequency, modulation parameters, output level and status.

In addition to this manual please find attached an operating/programming card for short-form operating instruction of the instrument.

For adequate customer support and in order to facilitate the service, a test program is built in. Service is done on component level, so no complete module must be exchanged.

Instrument versions

Type	code number on type plate	external reference frequency for synchronisation	mains voltage on delivery
PM 5192	9445 051 92001	8.58 ... MHz	220 V
PM 5192 S	9445 051 92701	10 - 5 - 3 $\frac{1}{3}$ - 2.5 - 2 - ... - 1 MHz*	220 V
PM 5192 SM	9445 051 92708	10 - 5 - 3 $\frac{1}{3}$ - 2.5 - 2 - ... - 1 MHz*	120 V

* 10 MHz subharmonics

Identification on the type plate at the rear of the instrument

old type plate

TYPE	PM 5192	MADE IN GERMANY
NC	9445 051 92001	
Nº	LO-01 690	
PHILIPS	100 W	50-60 Hz

last instrument:

LO-01 690
 serial no.
 series no.
 factory code

new type plate

Industrial & Electro-acoustic Systems	PHILIPS
TYPE: PM 5192	100 W
NC: 9445 051 92001	50-60 HZ
Nº: LO691	

first instrument:

LO691
 serial no.
 without series no.
 factory code