OPERATION MANUAL

RC04-KSG

1. General Description

The RC04-KSG is a special remote controller for the standard signal generator KSG4100.

The main purpose of the RC04-KSG is to read the information stored in the memory of the KSG4100. Before the remote controller is used, such information as the carrier frequency, output level, modulation factor, and modulation mode must be written into the memory from the front panel of the signal generator.

The values of the carrier frequency, output level, modulation factor, and memory address can be changed by cursor keys and rotary knob.

2. Specifications

o Setting functions

Higher digit △ and ▽ keys and lower digit △ and ▽ keys in MEMORY block

ON/OFF key in MODULATION block

Rotary knob to modify the value at cursor position

◁ and ▷ keys to move cursor within a block

◁◁ and ▷▷ keys to move cursor between blocks

(The result of modification is displayed on the KSG4100.)

RANGE ×4, ×2, and ×1 keys to change the unit of gain for rotary knob

LOCK key to fix the function of rotary knob

o Display functions

2-digit 7-segment LED in MEMORY block

ON/OFF indicator in MODULATION block

o External dimensions

180(W) × 42(H) × 120(D) mm (case size)

Cable length = 2m approx.

o Operating temperature range:

0 to 40℃

3. Connection Method

   Turn off the POWER SW of the KSG4100, set the connector at the tip of the RC04-KSG cable to the REMOTE connector on the rear panel of the KSG4100 firmly, and turn on the POWER SW.

   If information is not displayed correctly, turn off the POWER SW and turn it on again.

4. Operation Method

   Each time the higher digit △ or ▽ key or lower digit △ or ▽ key in MEMORY block is pressed, the value of the relevant digit of memory address increases or decreases by 1.

   The lower digit △ and ▽ keys in MEMORY block and the ON/OFF key in MODULATION block have the same functions as those keys on the KSG4100 front panel.

   The same memory address is displayed on the RC04-KSG and on the KSG4100, and the ON/OFF indicator in the MODULATION block of RC04-KSG shows the same status as that on the KSG4100.

   Data must be written into memory in advance by use of the keys on KSG4100. (See Section 4.7.2 of KSG4100 Operation Manual.)

   Before using the rotary knob, move the cursor to the item to be modified by use of the ◁ , ▷ , ◁◁ , and/or ▷▷ key(s).
   To change the unit of gain to be obtained by the turning of the rotaty knob, select RANGE ×4 , ×2 , or ×1 . ×4 gives the greatest unit of gain. If the LOCK key is pressed, the data value cannot be changed by turning the rotary knob; that is, the data is fixed at the value specified immediately before the LOCK key was pressed.

   Note: When the value of higher digit in MEMORY block is "9", pressing of the △ key is ignored. In the same way, pressing of the ▽ key is ignored when the value of the higher digit is "0".

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