FX30

FX30B GATE/LOOP OPERATION

DESCRIPTION

The DOD FX30B GATE/LOOP works in several different modes; as a simple noise gate, as a noise gate with an effects loop, as an A/B box, or as a keyed gate. It is a full function device and in many applications may be more useful than expensive rack mounted units. The FX30B uses a standard 9 volt battery or PS 3 A.C. adaptor for power. It has three controls: SENSIVITY, GATE and DELAY, and five jacks: IN, OUT, SEND, RETURN, and a 3.5 MM power jack.

USING THE FX30B AS A NOISE GATE

A noise gate is a device used at the end of a signal processing chain (distortion, chorus, flanger, etc.) to reduce noise. The Noise Gate does this by means of a signal-activated switch that turns off the output when no signal is present, then quickly turns on to let a signal come through. To use the FX30B as a noise gate, connect the instrument or effects chain output to the IN jack and the amplifier to the OUT jack, press the switch so the LED lamp is lit, then adjust the SENSITIVITY so the noise is cut when no signal is present. The LED dims when the gate is open and brightens when the gate is closed. When the Sensitivity knob is fully CCW the gate is locked closed. The DELAY knob adjusts the time from when the signal stops to when the gate opens.

USING THE FX30B TO MAKE A SWITCHABLE EFFECTS LOOP

Plug the SEND jack to the input of the effect or effects and the output of the last effect into the RETURN jack. Now when the LED lamp is lit the effects will operate through the noise gate (see the noise gate section above) and the effects loop. The GATE control should be set to RETURN so the signal from the effects will be sensed. When the switch is pressed the FX30B will act as a master bypass for the effects loop.

USING THE FX30B AS AN A/B BOX

An A/B box selects between two input signals (A or B inputs) and sends

the desired signal to the OUT jack. To accomplish this, connect one input to the IN jack and another to the RETURN jack, the output will come from the OUT jack. When the switch is pressed the FX30B will select between the two inputs. Unless the noise gate is disabled (SENSITIVITY fully CCW) it will sense the input indicated by the GATE control (IN or RETURN) and the RETURN signal will be gated.

GATING ONE SIGNAL WITH ANOTHER (KEYING)

With the GATE control in the IN position, the signal to the IN jack controls the gate, and the signal to the RETURN jack will be gated by the IN signal.

CONTROLS

SENSITIVITY adjusts the amount of signal needed to trigger the noise gate; when it is fully CCW the gate is locked closed regardless of the signal level.

DELAY controls the amount of time from when the signal stops until the gate opens. It is variable from 5 ms. to 2 seconds.

GATE selects the input for the gate circuitry to sense, either the IN or RETURN or both signals. This makes possible the gating of one signal by another.

SPECIFICATIONS

I/O Impedances

IN	500K ohm
RETURN	500K ohm
OUT	1K ohm
SEND	1K ohm

DELAY	5 ms. to 2 S. (gate turn off delay time)
S/N RATIO	> 90 db
BANDWIDTH	40-20K Hz
POWER SUPPLY	9 Volt battery or PDS 1500 AC adapter
SIZE	5" X 3" X 2"
WEIGHT	1.2 lbs.