

BRIEF OVERVIEW OF SOME FUNCTIONS

INPUT- WILL ACCEPT ANY SIGNAL WITHIN +/-12V RANGE

END OUT- GATE OUTPUT THAT IS NORMALLY HIGH. WHEN THE INPUT APPROACHES THE SLEW LIMIT [SET BY THE INITIAL CONTROL AND CV] THE GATE WILL BECOME ACTIVE, GOING LOW ON FALLING ACTION AND RETURNING HIGH WHEN THE OUTPUT 'CATCHES UP' WITH THE INPUT SOURCE. OUTPUT RANGE IS AROUND 0-5V

IN S/H MODE, THE OPERATION CAN BE SEEN AS COMPARING AN INPUT SIGNAL WITH THE PREVIOUSLY HELD VALUE.

S/H INPUT- CONTROL INPUT. ANY SIGNAL THAT EXCEEDS THE THRESHOLD [SET AROUND 1.25V] WILL CAUSE THE OUTPUT TO EITHER:

A. HOLD ITS VALUE UNTIL THE S/H CONTROL GOES LOW AGAIN [IN L/H MODE] OR

B. ACQUIRE A NEW SAMPLE ACCORDING TO SLEW LIMIT [IN S/H MODE] I.E. AS CLOSE TO THE INPUT SOURCE AS THE SLEW LIMIT WILL ALLOW WITHIN THE SAMPLE WINDOW

MODE SWITCH- SWITCHES BETWEEN LAG AND HOLD OR SAMPLE AND HOLD MODES. IN S/H MODE THE YELLOW LED WILL BE LIT. BOTH SECTIONS SHOULD POWER ON IN L/H MODE BUT OCCASIONALLY A SECTION MAY POWER ON IN S/H MODE.

CYCLE SWITCH- PRESSING THIS SWITCH ROUTES AN INTERNAL HYSTERETIC COMPARATOR TO THE INPUT AND IGNORES SIGNALS PRESENT AT THE IN JACK. IN L/H MODE THE SECTION BECOMES A WIDE RANGE VCLFO WITH HOLD FUNCTION. A BIPOLAR TRIANGLE IS AVAILABLE AT THE OUTPUT, AND A SQUARE [0-5V] IS AVAILABLE AT THE END OUTPUT. IN S/H MODE, THE OUTPUT WILL STEP UP AND DOWN ACCORDING TO THE S/H CONTROL SIGNAL AND RATE GIVING STAIRCASE WAVE FORMS WITH CONTROLLABLE STEP SIZE.

YOU CAN PATCH THE END OUT TO THE CV INPUT TO GET VARIBALE-SKEW SAWTOOTH/ PULSE WAVES.

SIGNAL LED- NORMALLY, THE RED SIGNAL LED MONITORS THE OUTPUTS ACTION IN THE 0 TO POSITIVE RANGE [DARK AT 0V]

WHEN PUT IN CYCLE MODE, THE LED WILL INDICATE A BIPOLAR SWING [DARK AT NEGATIVE END OF SWING]

THE UNLABLED JACK IN THE MIDDLE COMPARES THE TOP AND BOTTOM SECTIONS. IF THE TOP SECTION IS MORE POSITIVE THAN THE BOTTOM, THE OUTPUT GOES HIGH. THE OUTPUT RANGE IS AROUND +/-5V.

TRY USING THIS AS AN AUDIO SRC AS WELL AS A CONTROL SRC.