



GUIDING SYSTEMS GROUP

H6229 DIGITAL OFFSET STATION OPERATION INSTRUCTIONS

INTRODUCTION

The H6229 Offset station allows changes in guide point of the amplifier from a remote location. It is used in conjunction with wide proportional field of view detectors to give the operator remote control to precisely align the strip to the process.

When using the H6229 Offset station the H6600/H6601 controller determines the amount of offset from the signals transmitted by the offset station. The offset value is changed digitally within the H6600/H6601 based on analog signals received from the H6229. When the H6229 is turned off, the H6600/H6601 stores the last setting and uses it when the offset station is turned on again. With the offset station turned off, the controller guides at zero offset. If needed, digital offset stations can be cascaded to adjust the offset from multiple locations.

Following is a description of the key functions on the H6229 Digital Offset Station:



Turns unit on. Any offset previously set by the unit was stored in the H6600/H6601 and will be reactivated. Turning on the main H6229 also activates any linked H6229-AUX-01 units.



Turns unit off. Any offset in the system will be eliminated and guide point will shift to the established control point in the H6600 Amplifier. Turning off the main H6229 also deactivates any linked H6229-AUX-01 units.



Clears offset memory and guides to detector zero. Functions only if H6600 is in MANUAL.



Functions in AUTO or MANUAL. SET is most frequently used with MANUAL. Manually position the strip to desired guide point and press "SET". Control will be established at that point. The system will not, however, guide to a guide point offset more than the offset limit set in the H6600/H6601 Amplifier.



Used to adjust offset decrease while in AUTO. Holding the arrow key in will result in a continuous change in the offset value. Each momentary press will change the offset value by approximately 0.0006 times the detector field of view (example-- a 40" field of view detector would increment 0.0006 x 40" = 0.024"). The system will not however, adjust to a guide point offset more than the offset limit set in H6600 Amplifier (See notes 1 and 2.)



Used to adjust offset increase while in AUTO. Holding the arrow key in will result in a continuous change in the offset value. Each momentary press will change the offset value by approximately 0.0006 times the detector field of view (example-- a 40" field of view detector would increment 0.0006 x 40" = 0.024"). The system will not however, guide to a guide point offset more than the offset limit set in H6600 Amplifier (See notes 1 and 2.)



A dual function meter.

Primary Function:

The meter may reflect either the amplifier output or the detector error. The primary meter function is determined by the remote meter setting in the H6600/H6601 configuration menu.

Secondary Function:

When a button is depressed, the meter reflects the amount of active offset. Scaled to a value in which ± 10 V dc represents the offset range as determined by the programmed offset limit. Two to three seconds of inactivity on the offset station keypad causes the meter to revert to display the primary function.

H6229 Output Signal Definition		
Function	Input voltage range	Description
Clear	+10 to +15	Sets the offset to zero.
Increase	+4 to +6	Increases the amount of offset.
On	+1.5 to +3	Turns the offset on.
Off	-1 to +1	Turns the offset off.
Decrease	-6 to -4	Decreases the amount of offset.
Set	-10 to -15	Zeroes the amplifier.

Note 1: Offset limit is a programmable feature in the H6600/H6601 controllers that places a maximum limit on available offset. The maximum offset limit value is $\pm 30\%$ (60%) of the field of view of the detector. The default value is also the maximum value ($\pm 30\%$).

Note 2: The polarity of the offset signal can be reversed by changing a selector switch on the circuit board within the H6229 enclosure. This permits a system to be configured such that the direction of actual offset movement corresponds to the physical direction of the offset directional arrow keys (available 8/98).