

DTECH SAMPLE AND HOLD-MODULE 95 Mt. Read Blvd # 149 MODEL NO. Rochester, New York 14611 USA **SHM-60** 

## www.adtech-inst.com

The ADTECH Model SHM 60 Sample and Hold Module provides an accurate AND ECONOMICAL SINGLE CHANNEL MEMORY OF AN ANALOG PROCESS INPUT SIGNAL.

CONTROL OF THE OUTPUT PROCESS SIGNAL IS NORMALLY DONE THROUGH AN EXTERNAL contact input command. The SHM 60's digital memory provides infinite hold TIME WITH NO DECAY. THE EXTERNAL COMMAND INPUT MAY BE A DRY CONTACT OR SOLID STATE SWITCH RATED 24 VDC AT 2 MA, OR A VOLTAGE PULSE OF 9-30 VDC. SPECIFY CONTACT/SWITCH OR PULSE STATE FOR THE SPECIFIC MODE REQUIRED.

THE SHM 60 OFFERS FOUR MODES OF OPERATION: 1) THE STANDARD "SAMPLE MODE", ALSO CALLED UPDATE MODE, WHERE THE INPUT SIGNAL IS SAMPLED ON THE APPLICATION OF AN EXTERNAL COMMAND AND IS HELD AS THE OUTPUT UNTIL A NEW SAMPLE COM-MAND IS RECEIVED; 2) THE "TRACK MODE" WHERE THE OUTPUT FOLLOWS THE INPUT AS LONG AS AN EXTERNAL TRACK COMMAND IS PRESENT, WITH THE OUTPUT SIGNAL HELD AT THE LAST VALUE WHEN THE TRACK COMMAND IS PRESENT, WITH THE OUTPUT SIGNAL HELD AT THE LAST VALUE WHEN THE TRACK COMMAND IS REMOVED; 3) "PEAK PICKER-Mode" and 4) "Valley Picker Mode." In the modes 3 and 4, The SHM 60 responds TO AN INCREASING AND DECREASING SIGNAL RESPECTIVELY AND HOLDS THE PEAK OR VALLEY SIGNAL LEVEL OUTPUT UNTIL AN EXTERNAL TRACK COMMAND MAKES THE OUT-PUT FOLLOW THE INPUT (SPECIFY).

THE SHM PROVIDES STANDARD PROCESS CURRENT OR VOLTAGE SIGNALS ON THE OUTput with a maximum of 10 mV P/P output ripple. It offers a way if interfacing PROCESS SIGNALS TO A COMPUTER SYSTEM OR OTHER PROCESS INSTRUMENTATION FOR IMPROVED RESOLUTION.



## **FEATURES**

- FOUR MEMORY FUNCTIONS: SAMPLE, TRACK, PEAK AND VALLEY (NULL)
- **INFINITE HOLD:** DIGITAL TECHNIQUE, 0.02% RESOLUTION
- **COMMAND CONTROL:** 24 VDC @ 2 MA CONTACT-STANDARD: 0-10 TO 0-24 VDC VOLTAGE-OPTIONAL
- DC CURRENT INPUTS: 4-20 MA, ETC.
- DC VOLTAGE INPUTS: 1-5 VDC. ETC.
- HIGH INPUT IMPEDANCE: 10 MEGOHMS MINIMUM
- **ZERO-BASED INPUTS:** CURRENT AND VOLTAGE
- LOW IMPEDANCE CURRENT INPUTS: 1/10 STANDARD-OPTIONAL
- DC PROCESS SIGNAL OUTPUTS: CURRENT AND VOLTAGE
- **Repeatability:** ±0.05% of span
- HIGH ACCURACY: ±0.1% SPAN

## TYPICAL APPLICATIONS

STORE PERIODICALLY COMPUTED INFORMATION FOR ANALYZERS AND COMPUTERS

SET POINT MEMORY ON COMPUTER FAILURE

ANALYZER PEAK SELECTION AND MEMORY



## **CONNECTIONS / DIMENSIONS**

