

UP-DOWN RAMP BUFFER MODEL NO. **UDB 97**

THE ADTECH MODEL UDB 97 UP-DOWN RAMP BUFFER PROVIDES AN ACCURATE AND ECO-NOMICAL MEANS OF SUPERVISORY PROCESS CONTROL. A CONTACT STATE CHANGE OR PULSE INPUT DRIVES THE STANDARD OUTPUT PROCESS SIGNAL TO RAMP UP OR DOWN AND CAN HOLD THE RESULTING CHANGE.

JTECH

95 Mt. Read Blvd # 149

www.adtech-inst.com

THE UP AND DOWN MULTITURN RAMP-RATE CONTROLS ALLOW INDEPENDENT ADJUSTMENT of the ramp rate from the specified maximum rate to 100 times slower. The two CONTACT INPUTS CONTROL THE DIRECTION OF THE OUTPUT AND THE RAMP OR HOLD MODE RESPECTIVELY.

IN AN ALTERNATE CONFIGURATION, ONE CONTACT CHANGE WILL GENERATE AN UP RAMP, THE SECOND A DOWN RAMP, AND WHEN BOTH CONTACTS ARE IN THE SAME STATE, THE OUTPUT WILL HOLD (SPECIFY).

THE UDB 97 PROVIDES STANDARD PROCESS CURRENT OR VOLTAGE SIGNALS ON THE OUT-PUT WITH A MAXIMUM OF 10 MV P/P OUTPUT RIPPLE. IT OFFERS A CONVENIENT MEANS INTERFACING CONTACT CONTROLLED RAMP SIGNALS TO A COMPUTER SYSTEM OR OF OTHER PROCESS INSTRUMENTATION FOR IMPROVED RESOLUTION. RECALIBRATION TO OTHER DESIRED RANGES IS ACCOMPLISHED EASILY. THE USE OF TEMPERATURE-STABLE, LOW-NOISE COMPONENTS PROVIDES EXCELLENT STABILITY AND NOISE IMMUNITY.



FEATURES

- CONTACT INPUTS: 24 VDC @ 2 MA, NO.O OR N.C.- SPECIFY
- **VOLTAGE INPUTS:** 9 VDC MINIMUM, 30 VDC MAXIMUM
- **RAMP RANGE:** 0.1 SECOND TO 50 HOURS -SPECIFY
- INPUT COMMANDS: RAMP UP/RAMP DOWN, OR RAMP UP/DOWN-RAMP HOLD
- DC PROCESS SIGNAL OUTPUT: CURRENT AND VOLTAGE
- **REPEATABILITY AND RESOLUTION: ±0.02%** OF SPAN
- HIGH ACCURACY: ±0.1% OF SPAN

TYPICAL APPLICATIONS

- COMPUTER/MANUAL OUTPUT STATION
- COMPUTER OUTPUT MEMORY
- **INCREMENTAL CONTROL**
- SOFT START AND SHUTDOWNS
- HEAT TREATING TIME/TEMP. PROFILE
- SEMICONDUCTOR PULLING PROCESS



CONNECTIONS / DIMENSIONS

