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## www.adtech-inst.com

The Adtech Model ADM 20 Amplitude Discriminator / High-Low Selector Module provides a single output that represents either the Highest or lowest of the 2, 3, or 4 input signals. It utilizes precision comparator networks to provide bumpless transition from signal to signal. Selection of High or low select operation is achieved by a single jumper selection.

THE ADM 20 MAY BE ORDERED AS A THREE INPUT MEDIAN SIGNAL SELEC-TOR WITH OPTION I 27. THIS OPTION IS NORMALLY UTILIZED IN A CRITICAL PROCESS FOR INCREASED RELIABILITY. A TYPICAL APPLICATION IS ONE WHERE THREE PRIMARY TRANSMITTERS ARE USED TO MEASURE A SINGLE VARIABLE SUCH AS TEMPERATURE, PRESSURE LEVEL, ETC. THE MEDIAN SELECTOR INSURES THAT THE SELECTED SIGNAL IS REPRESENTATIVE OF THE PROCESS VARIABLE EVEN WHEN ONE OF THE THREE TRANSMITTERS FAILS UPSCALE OR DOWN-SCALE FOR ANY REASON.

THE ADM 20 DELIVERS STANDARD PROCESS CURRENT OR VOLTAGE SIGNALS ON THE OUTPUT WITH A MAXIMUM OF 10 MV P/P OUTPUT RIPPLE.

Recalibration to other desired ranges is very convenient. The use of temperature-stable, low-noise components provides excellent stability and noise immunity. The ADM 20 employs the latest design and components for reliability, accuracy, and serviceability.



## **FEATURES**

- DISCRIMINATOR / SELECTOR: HIGH OR LOW- STANDARD; MEDIAN OPTIONAL
- NUMBER OF INPUTS: 2, 3, OR 4 STANDARD
- DC CURRENT INPUTS: 4-20 MA, ETC.
- DC VOLTAGE INPUTS: 1-5 VDC, ETC.
- HIGH INPUT IMPEDANCE: 10 MEGOHMS MINIMUM
- · DC PROCESS SIGNAL OUTPUTS: CURRENT AND VOLTAGE
- Repeatability: <u>+</u>0.02% of span
- HIGH ACCURACY: <u>+</u>0.1% OF SPAN
- · REVERSE CALIBRATION/ LINEAR INVERTER: OPTIONAL

AMPLITUDE DISCRIMINATOR / HIGH-LOW SELECTOR MODULE MODEL NO. ADM 20

## **TYPICAL APPLICATIONS**

- Soft start or shutdown
- HOT-SPOT TEMPERATURE MEASUREMENT
- LOWEST LEVEL MEASUREMENT
- HIGHEST LEVEL MEASUREMENT
- REDUNDANT LOSS OF SENSOR INTERFACE
- REDUNDANT SENSOR MAINTENANCE INDICATOR
- MEDIAN SELECTOR FOR CRITICAL PROCESSES



## **CONNECTIONS / DIMENSIONS**



Please refer to the Housing and/or Option Section for more specific and detailed information.