



# ADTECH

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## ANALOG DIVIDER MODULE MODEL NO. ADB 51

THE ADTECH MODEL ADB 51 ANALOG DIVIDER MODULE OFFERS AN ACCURATE AND ECONOMICAL MEANS OF ACCEPTING TWO PROCESS INPUTS AND DIVIDING ONE BY THE OTHER,  $K = D$ . IT PROVIDES AN OUTPUT SIGNAL SUCH AS 4-20 MA DC, 1-5 VDC, OR A ZERO-BASED OUTPUT REPRESENTING THE COMPUTATION.

AN EXCLUSIVE OUTPUT OPTION (O 44) PROVIDES A PULSE RATE OUTPUT ALONG WITH THE STANDARD ANALOG OUTPUT. THIS ELIMINATES THE NEED FOR A SEPARATE LINEAR INTEGRATOR, LIT 56, IF THE OUTPUT IS TO BE TOTALIZED.

THE ADB 51 PROVIDES STANDARD PROCESS CURRENT OR VOLTAGE SIGNALS ON THE OUTPUT WITH A MAXIMUM OF 10 mV P/P OUTPUT RIPPLE. IT OFFERS, AS STANDARD, A CONVENIENT WAY OF INTERFACING SIGNALS TO A COMPUTER SYSTEM OR OTHER PROCESS INSTRUMENTATION FOR IMPROVED RESOLUTION.

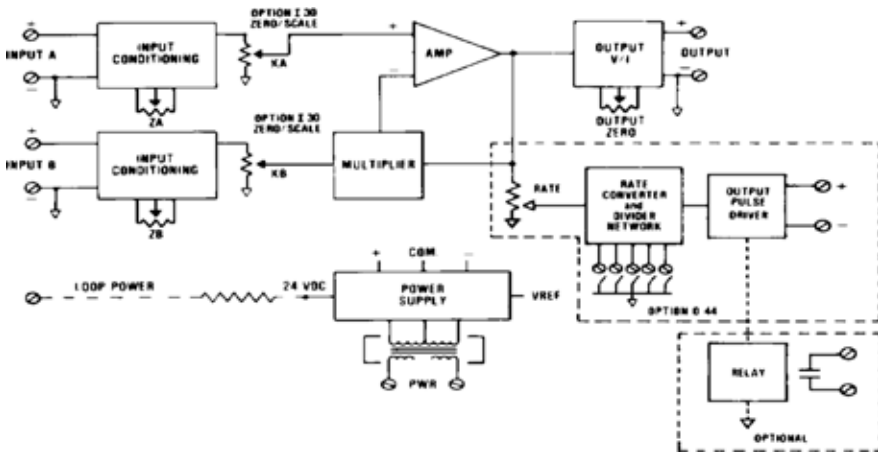
RECALIBRATION TO OTHER DESIRED RANGES IS EASY. IT OFFERS HIGH ADJUSTABILITY RANGE, AND ITS TEMPERATURE-STABLE, LOW-NOISE COMPONENTS DELIVER EXCELLENT STABILITY AND NOISE IMMUNITY.

AS COMPANION INSTRUMENTS, ADTECH ALSO OFFERS TWO MODELS WITH THREE ANALOG INPUTS AND ONE OUTPUT AS DESCRIBED IN THE FOLLOWING PARAGRAPH.

MDB 52 IS SUITABLE FOR COMPUTING EQUATIONS SUCH AS  $(A \times B)/C$ . THE MFM 32 IS SPECIFICALLY DESIGNED TO COMPUTE COMPENSATED MASS FLOW, FROM INPUTS OF  $\Delta P$  OR LINEAR FLOW TRANSMITTER, TEMPERATURE, AND PRESSURE TRANSMITTERS. ALL THESE PRODUCTS OFFER THE OPTIONAL PULSE RATE OUTPUT-OPTION O44.

### TYPICAL APPLICATIONS

- Fuel-air ratio control
- Temperature compensation of flow
- Ratio computation



### FEATURES

- BASIC EQUATION:  $K \frac{a}{b} = D$
- 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:  $\pm 0.02\%$  OF SPAN
- HIGH ACCURACY:  $\pm 0.1\%$  OF SPAN
- SPAN ADJUSTMENT: 0-100% BOTH INPUTS
- ZERO SUPPRESSION: 0-100% BOTH INPUTS--OPTIONAL



