



ADTECH

95 Mt. Read Blvd # 149
Rochester, New York 14611 USA
Phone: 1.585.698.1845
Fax: 1.585.697.0445

www.adtech-inst.com

LEAD-LAG MODULE MODEL NO. LLM 64

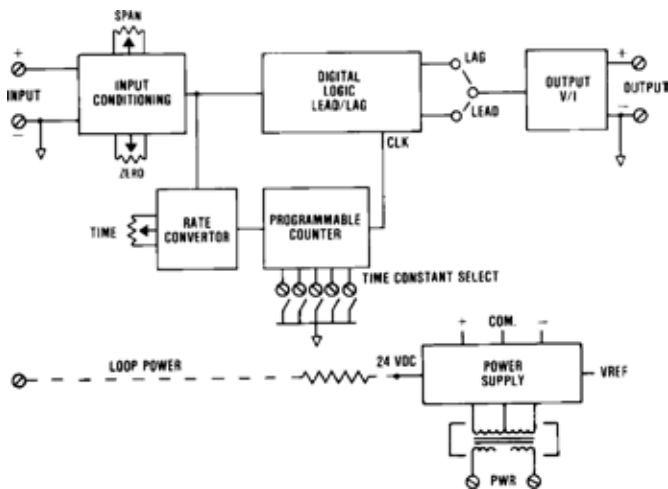
THE ADTECH MODEL LLM 64 LEAD-LAG MODULE OFFERS AN ACCURATE AND ECONOMICAL MEANS OF PRODUCING A PHASE LEAD OR PHASE LAG BETWEEN AN INPUT CURRENT OR VOLTAGE SIGNAL AND OUTPUT PROCESS SIGNAL, SUCH AS 4-20 MA DC, OR 1-5 VDC. IT UTILIZES PRECISE DIGITAL TECHNIQUES TO DO THIS FUNCTION.

IN THE LEAD MODE, A STEP INPUT PRODUCES A FAST RISE (OR FALL) WAVE FORM WITH A GAIN OF 10, THEN THE OUTPUT DECAYS LIKE AN RC RESPONSE TOWARD THE STEADY STATE OUTPUT LEVEL. IN THE LAG MODE, A STEP INPUT PRODUCES AN OUTPUT TYPICAL OF A SINGLE POLE LOW PASS FILTER.

THE LLM 64 PROVIDES 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 ACCOMPLISHED EASILY. THE USE OF TEMPERATURE-STABLE, LOW-NOISE COMPONENTS PROVIDES EXCELLENT STABILITY AND NOISE IMMUNITY.

THE LLM 64 EMPLOYS THE LATEST DIGITAL AND ANALOG DESIGN AND COMPONENTS UTILIZING PROVEN TECHNIQUES FOR SUPERIOR RELIABILITY, ACCURACY, AND SERVICEABILITY.



FEATURES

- LEAD-LAG RANGES: 1 SECOND TO 50 HOURS
- LEAD-LAG MODE: STRAP SELECTABLE
- LOW-PASS FILTER OR SIGNAL AVERAGER: 2.5 MICRO HZ TO 5 HZ ADJUSTABLE
- 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
- DC PROCESS SIGNAL OUTPUTS: CURRENT AND VOLTAGE
- REPEATABILITY: +0.02% OF SPAN TYPICAL
- HIGH ACCURACY: +0.1% OF SPAN

TYPICAL APPLICATIONS

- PROCESS FEED FORWARD AND FEEDBACK CONTROL
- RESPONSE RESTRICTION OF ACTUATOR MOTORS
- RECORDER PEN NOISE REDUCTION
- RATE-OF-CHANGE COMPUTER



