

The Adtech Model LIT 56 converts linear analog inputs into a variable pulse rate output proportional to the input. Its companion, the SIT 58, converts the analog input into a variable pulse rate output proportional to the square root of the input.

These units handle all standard process voltage and current inputs and provide a 24 VDC pulse output capable of driving most electromechanical counters. A relay contact output can be provided as an option. For electronic counters, an optional voltage pulse output is also available. A complete range of totalizers, options T 10 through T 14, is available.

Zero, rate, and drop-out controls are provided by infinite resolution multiturn potentiometers. Recalibration to other ranges is convenient via simple strap selection of output ranges and the adjustable drop-out feature.

Loop power (24 VDC at 35 mA) for two-wire transmitter excitation is available as option O 15.



Features

- DC Current Inputs: 4-20 mA, etc.
- **DC Voltage Inputs:** 1-5 VDC, etc.
- **High Input Impedance:** 10 megohms minimum at 5 VDC
- Zero-Based Inputs: Current and voltage
- Range Adjustment: 1,000,000:1
- Adjustable Dropout: 0-20%
- **Repeatability:** ±0.02% of span
- **High Accuracy:** ±0.1% of span
- Two-Wire Transmitter Excitation--Optional
- Voltage Pulse Output For Electronic Counters--Optional

Electronic Integrator/Totalizer

Model No. LIT 56 Linear Integrator

Model No. SIT 58 Squared Integrator

Typical Applications

- Energy totalizer, BTU, KWH
- Voltage or current to frequency (telemetry transmitter)
- Amp hour totalizer
- General voltage to frequency conversion
- Flow totalizer from linear flow signals into engineering units
- Flow totalizer from squared flow signals into engineering units



atio . /n: onci C

Connections/Dimensions		b	7.0 IN. 178nm)	D.234 IN DIAMETER 2 PLACES [CLEARANCE FOR #10 SCREW]
NPUT (-) (+) 0UTPUT - (PULSE) + (PULSE) ↓ (PULSE) () () () () () () () () () (8.25 JK	0 0
€ ₽®				
Input/Output	Input Signals 4-20 mA DC (Z in 250 ohm 10-50 mA DC (Z in 100 ohi 0-1 mA DC (Z in 5k ohms) 0-10 mA DC (Z in 500 ohm 1-5 VDC (Z in 10 megohms 0-5 VDC (Z in 10 megohms 0-10 VDC (Z in 1 megohm) Other zero-based current ar voltages are available.	as) Outpu Outpu Outpu 24 VE 50 mi S0 Voltag 10 to 10 to	ut Signals ut pulse rate: 0-7 OC nominal into Ilisecond pulse v ges lower than 2 1,000 counts pe	10 to 0-70,000 per hour full scale 100 ohms minimum, width nominal 24 VDC: Specify (Option O21) er second output: (Option O 59)
Performance	Calibrated Accuracy: ±0.14 Linearity: ±0.1% maximum Repeatability: ±0.05% max Temperature Stability: ±0.0 Load Effect: ±0.01% zero to Response Time: 150 millise Temperature Range: 0° to 7 Power Supply Effect: ±0.05 Note: All accuracies are giv	% , ±0.04% typical kimum 01%/°F maximum, ±0 o full load econds 140°F (-18° to 60°C) 5% for a ±10% powe <i>ven as a percentage c</i>	0.004%/°F typic operating; -40° † r variation of span.	al to 185°F (-40° to 85°C) storage
Power	115VAC:50/60 Hz, 0.7 PF 12 VDC: Isolated 24 VIDC: Non-isolated 24 VIDC: Isolated Note: All units 3 watts max	(Standard) (Option P8) (Option P1) (Option P2)	48 VIDC: Isolat 125 VDC: Isolat 230 VAC: 50/60	ted (Option P3) ted (105-140 VDC) (Option P4) 0 Hz, 0.7 PF (Option P5)
Mechanical	Electrical Classification: Ge Connection: Barrier termina Controls: Multiturn zero, ra Mounting: Surface mountin Weight: Net Unit: 2.6 poun	eneral purpose al strip (3/8" spacing, te, and drop-out con g standard. See Hous ds (1.18 kilograms);	No. 6 screws) trols sings Section for Shipping: 3.0 pc	options. bunds (1.36 kilograms)
Options Ordering Information Model number Input signal Output pulse rate and pulse voltage	Option Number I 14 I 18 O 15 O 17 O 21 O 59 H 10 H 13B, H 14B, H 15B H 16	Description Voltage inputs to 200 VDC, 1 megohm min. impedence; current inputs of 100 mA max. Low impedance DC current inputs [1/10 of standard (Z)] (LIT 56 only) Two-wire transmitter excitation Internal mercury-wetted relay Output pulse voltages lower than 24 VDCspecify 10-1,000 CPS output Thin-line conduit mounting plate and terminal cover NEMA 4, 7, and 12 enclosures PFA 12 high-density, plug-in enclosure		
 Prime power with option no. Input/output options Housing and miscellaneous options Please refer to the Housing and/or Option Section for more specific and detailed information. 	Represented by:		ADTECH	Analog-Digital Technology, Inc. 3750 Monroe Avenue Pittsford, New York 14534-1302 Phone: (716) 383-8280 Fax: (716) 383-8386 E Mail: adtech@adtech-inst.com Web site: http://www.adtech-inst.com

Option Section for more specific and detailed information.

Information subject to change without notice. Printed in U.S.A.