



Tomorrow's Telemetry Today!

Da-Tel Research Company, Inc.
932 N. Park Avenue
Montrose, Colorado 81402
www.da-telresearch.com

Phone: (970) 249-6129
Fax: (970) 249-8919

Email: info@da-telresearch.com

INSTRUCTION INFORMATION FOR THE G-9344 PROGRAMMABLE ACQUISITION MODULE



- * **18 DIFFERENTIAL ANALOG INPUTS**
- * **FLYING-CAPACITOR ISOLATION**
- * **LAPTOP SETUP & CONFIGURATION**
- * **SERIAL DATA PORT**
- * **AUTOMATIC SCALING & CALIBRATION**
- * **12-BIT RESOLUTION**

GENERAL

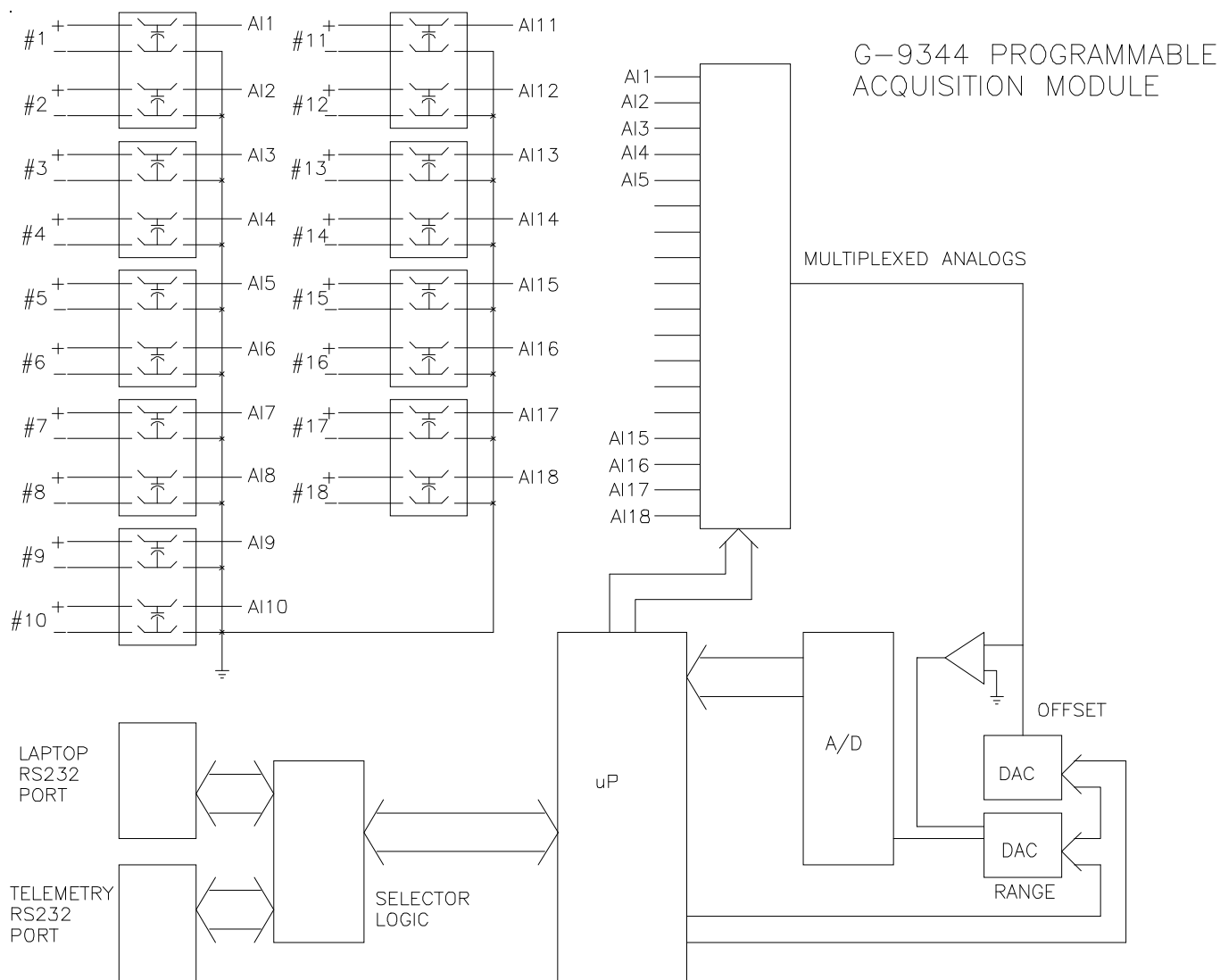
The G-9344 Programmable Acquisition Module samples up to 18 analog inputs that are isolated with flying-capacitor technology. This flying-capacitor technology yields a common-mode rejection ratio of 120 dB. A resistor is provided to convert each input to a voltage when a current loop is applied. This multiplexed analog data is sampled to 12-bit resolution and stored in the microcontroller.

The G-9344 allows the customer to scale each input and then direct the use of each signal. The analog values can be summed and then transferred to some other device. See the ANASET Operator's Manual for the configuration operation.

Scaling is accomplished using a graphics-environment program, ANASET, run on a laptop computer connected to the RS232 laptop port of the G-9344. This program automatically sets up the offset and range parameters to acquire 12-bit resolution for even the oddest input voltages. See the application notes for more details.

SPECIFICATIONS

Size: 9"x9.5" (special flat shelf mounting).
Weight: 16 oz.
Temperature Range: 0 to +70°C standard.
Accuracy: 0.01% per degrees C, +/-1.5 LSB,
over 0 to +65°C.
Power Requirements: +12 Vdc @ 240 mA,
-12 Vdc @ -90 mA.
Analog Inputs: +/-5.0 Vdc maximum, 1.0 V min., 10 V
max. range, 20 mA current loop maximum.
Serial Ports: RS-232 driven at +/-12 Vdc levels.



For more information about Da-Tel Research Company and our products, contact:

DA-TEL RESEARCH COMPANY, INC.
 932 North Park Ave.
 Montrose, CO 81402
 Phone: (970) 249-6129
 Fax: (970) 249-8919
 Toll-Free: 800-324-8388
 e-mail: info@da-telresearch.com
 or visit us at:
www.da-telresearch.com

**Equipment and/or components purchased through Da-Tel but manufactured by other companies are covered under the warranties of those manufacturers.*

NOTICE

As of the date of this printing, the specifications for the G-9344A in this Instruction Information sheet apply to all G-9344A, except as indicated. Because all Da-Tel products are continually being refined and improved, these specifications are subject to change without notice.