



**DICKY-john**<sup>®</sup>  
CORPORATION

# GAC2100b Grain Analysis Computer

## The GAC2100b features:

- Self-test before each moisture reading.
- 64-calibration memory, with user-defined "quick-keys" for automatic selection of most used grains.
- Automatic calibration selection through the whole moisture range.
- Automatic creation of sample identification number, test date & time for improved record keeping.
- Error messages warn the operator if any measured value is outside allowable limits of calibration.



## The GAC2100b combines fast, fully automatic grain analysis with superior communications technology

DICKY-john's GAC2100b means increased reliability of moisture readings through fully automatic operation. Just pour the sample into the hopper, select grain type, and press the LOAD button. It's that simple!

- Automatic loading and strike-off leveling ensure consistent sample size.
- Automatic sample weighing compensates for variations in test weight, which effects moisture readings, thereby eliminating the need for manual pre-weighing.
- Automatic temperature correction measures and compensates for variations in grain sample temperature.

Authorized as the U.S. Federal Standard



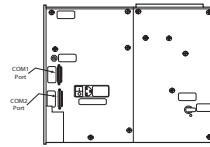
The GAC2100b is a sound investment in your grain and feed operations, with the features and capability to optimize your grain testing program today and the capacity to grow as technologies and calibration requirements change.

Automatic weighing, temperature compensation, and test cell loading/unloading, as well as no manual calculations or reading of charts combine to give you **virtually** hands-off testing. And that means highly reliable test results with no chance for human error.

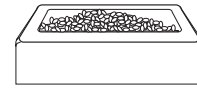
Calibrations can be updated without the need for a service person. Plus, the GAC2100b is capable of complete remote emulation for diagnostic testing without taking the unit out of service.\*\*

A heavy-duty chassis and rugged design, plus the ability to tie in with a peripheral PC and/or modem means the GAC2100b will prove to be a profitable addition to your facility for many years to come.

## Special Features



Two serial port interfaces



Grain Level Sensor (GAC2100b)



Level indicator simplifies setup

## Technical Specifications

### Performance

<b>Measurement Method:</b>	Capacitance, conductance, weighing device
<b>Applications:</b>	Corn, Soybeans, Wheat, Barley, Sorghum, Cereal Grains, Oilseeds, Beans, etc. Over 450 grain calibrations on file.
<b>Measured Components:</b>	Moisture Content: 0 to 50%*
<b>Test Weight:</b>	kgs/hl or lbs/bu**
<b>Repeatability:</b>	Moisture Content: ± 0.1%*
<b>Resolution:</b>	0.1% moisture
<b>Measurement Time:</b>	GAC2100b: 16 seconds GAC2100b (auto mode): 30-second cycle

### Instrument Data

<b>Number of Calibrations:</b>	Up to 64 stored in memory
<b>Languages:</b>	English, French, German, Spanish, Italian, Portuguese, Flemish and more
<b>Display Format:</b>	Large LCD (240 x 64 pixels)
<b>Display Content:</b>	Grain Name, Calibration Name, Moisture %, Sample Temperature, Approximate Density (Approximate Test Weight)
<b>User Interface:</b>	Menu driven
<b>Date/Time:</b>	Yes
<b>Construction:</b>	Painted steel, ABS plastic, polycarbonate

### Installation Requirements

<b>Operating Temperature:</b>	NTEP: 5 to 45°C (41° to 113°F)
<b>Humidity:</b>	5 to 95% (non-condensing)
<b>Power Supply:</b>	85-264 Vac, 48-62 Hz
<b>Power Consumption:</b>	20 VA
<b>Unit Dimensions:</b>	(H x W x D) 16.25" x 15.25" x 16"
<b>Weight:</b>	27 lbs
<b>Shipping Dimensions:</b>	(H x W x D) 27" x 21" x 23"
<b>Shipping Weight:</b>	38 lbs

<b>Grain Temperature:</b>	NTEP: 0 to 45°C (32° to 113°F)
<b>Temp. Difference:</b>	20°C (36°F), room to grain
<b>Sample Presentation:</b>	Whole Grain
<b>Sample Size:</b>	GAC2100b: 300-650 grams (cereal grains)
<b>Temperature Compensation:</b>	Yes*

### Remote Interface (DB25M, RS-232C)

COM1:	20 or 80 column printer, up to 19200 baud, DCE	COM2:	Computer, up to 19200 baud, DTE (null modem adapter required)-	Harsh Environment Serial Dot Matrix printer RS232 Null modem adapter
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\* Depending on application  
\* Subject to state certification testing  
\*\* External phone modem required



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