



# Gage-Chek®

The Gage-Chek is a multi-axis metrology display that accepts up to eight discrete inputs. It features intuitive visual displays, helpful audio cues and user-defined formulas. It also reports dynamic Min/Max measurements, provides SPC analyses from an integrated database and includes connectivity to PCs and other peripherals.



## Specifications

LCD	5.9" Color
Resolution down to	0.000004" or 0.0001 mm
Operating temperature	0°C to 45°C
Enclosure (W x H x D)	11.5" x 7.5" x 2.75"
Base (W x H x D)	10" x 2" x 7.5"
Enclosure weight	3.5 lbs
Base weight	7 lbs
Power Voltage range	85 Vac to 264 Vac
Power frequency range	43 Hz to 63 Hz

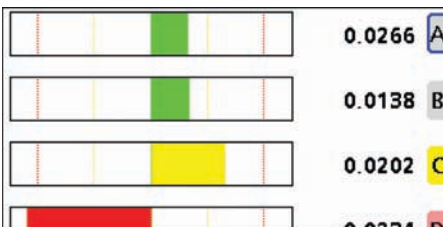
## Inputs

1, 4, 8 or 16 input measurement channels

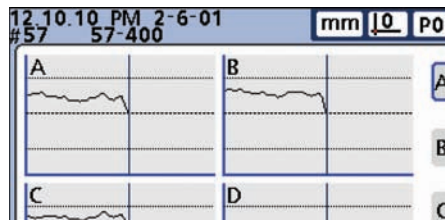
External connections:  
Footswitch  
Remote keypad  
Touch probe  
RS-232C serial port  
USB port  
Parallel data port

## Outputs

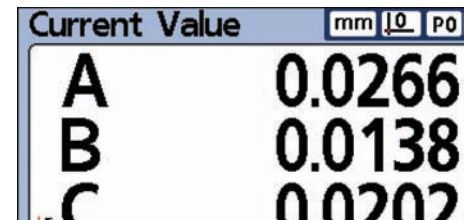
2 relay outputs  
Parallel data port  
RS-232C serial port  
USB port



**Visual feedback** A highly visible, intuitive and familiar interface with standard color cues. Instantly informs operators of pass/fail performance details for critical part dimensions.



**Integrated SPC database** Store, retrieve and manage enormous amounts of measurement data on the shop floor. Check quality control of each gage. Share information locally and globally.



**Formulas** Up to 16 output channels apply mathematical formulas to measurement data for on-the-spot part analysis.

## Powerful formulas

Create Gage-Chek formulas that transform simple measurements into the specific data you need for your unique applications; as shown in this example of a pin gage application.

The diagram shows a pin gage measuring a hole. The hole diameter is labeled 'D' and the gage depth is 'h'. The gage reading is 'C1'. The software interface shows a menu with 'Formulas' selected, displaying the formula:  $D = \frac{2 \cdot C1}{\sqrt{2} + 1}$ . The 'Current Value' window shows 'D' with a value of '14.745'.

Encoder measurement (C1) → transformed by the formula → displays pin diameter (D)

$$Pin\ Diameter\ D = \frac{2(h)}{(\sqrt{2} + 1)}$$

## Flexible data views

Change Gage-Chek data presentations at the touch of a button. Display simple numeric digital readouts, dial gages, bar graphs, database tables or statistical analyses.

The first view shows digital readouts for dimensions A (1.8627), B (2.3480), C (-1.2127), and D (-1.3721). The second view shows a dial for dimension B with a nominal value of 2.3400, a low limit of 2.3300, and a high limit of 2.3500. The third view shows a bar graph for dimensions A, B, C, and D with their respective values.

Digital readouts, dials and bar graphs Display numeric and graphical current value, nominal, limit and warning information.

The first view is a database table with columns A, B, C, and D, showing multiple rows of measurement data. The second view shows statistical analysis for dimension B, including Mean (2.3422), Max (2.3480), Min (2.3396), and other metrics. The third view shows a data trend graph for dimension B with upper control limit (Ucl) at 0.0010 and lower control limit (Lcl) at 0.0000.

Database tables and graphs Display raw measurement data, results of statistical analyses and data trends.

