



KB

DIGITAL INDICATOR

applications

- Laboratory Measurements
- Force, Torque or Pressure
- Process Control
- Weighing Applications
- O.E.M. Requirements

features

- 260,000 Count Resolution
- 50,000 Display Digits
- Universal Mounting Stand
- 0.02% Accuracy Class
- Digital Filtering
- RS 232 Serial Interface
- Peak Hold Option
- Stainless NEMA 4/4X Option
- One Year Warranty

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KB3-C LCD Display



KB3 LED Display

The KB Series is a high performance, compact, multi-featured digital indicator. This very versatile indicator is designed as a companion instrument for load cells, force transducers, torque transducers, pressure transducers, weighing systems and virtually any bonded foil strain gage-based transducer. The durable ABS enclosure (KB3 & KB3-C) is fitted with a universal mounting stand, providing a convenient means of securing the indicator to any flat surface and rotating it to achieve an optimum viewing angle. The easy-to-read display is a .56" bright green LED character display, with status annunciators. A .75" LCD version (KB3-C) is available, as is a NEMA 4X stainless steel enclosure (KB2). Both the KB3-C and the KB2 are battery-powered. The 5-key touchpad makes setup and operation of the KB Series quick and simple. Good display resolution, a programmable digital filter and a peak hold feature allows the user to readily configure the KB Series for a broad range of measurement tasks. The RS232 interface facilitates communication with a PC or serial printer. This port can also be used for connection to a remote display device. The attributes of the KB Series make it an ideal choice for measurements in the laboratory, manufacturing, weighing situations, and for general measurements where a versatile, low cost precision indication solution is needed.



KB2 Stainless Steel LCD Display

Innovative Measurement Solutions



operator interface

Display:	LED: .56" High; Bright Green; 7-Segment Digits; Full 6 Digit Numeric Display LCD: .8" High; 7-Segment Digits; 6 Digit Numeric Display plus sign
Status Annunciators:	7 (LED) - 8 (LCD); Indicate "Gross", "Net", "Tare", "Motion", "Zero", "lb" & "kg"
Keypad:	5-Key; Tactile Feedback
Display Resolution:	KB3: 50,000 dd (max.); KB3-C & KB2: 199,999
Display Increments:	1, 2, or 5; Selectable
Decimal Point:	Up To 6 Settings; Selectable
Auto Zero Tracking:	0 To 5 Graduations; Minimum 0.5 Graduations
Motion Detection:	1, 3, 5 or 10 Graduations
Digital Filter:	Keypad Programmable; Dynamic Response Conditioning
Calibration Method:	Digital; Keypad; System Zero and Span Values Stored in Battery-Backed Memory

function

Linearity:	Better Than Or Equal To 0.02% Full Scale (FS)
Internal Resolution:	KB3: 18-Bit, 260,000 Grads; KB3-C 130,000 Grads; KB2 150,000 Grads
Measurement Rate:	KB3: 25 Updates Per Second; KB3-C & KB2: 8 Updates Per Second
Signal Sensitivity:	.4 mV Per Graduation (maximum)
Span Range @ Full Scale:	30 mV (maximum)
Excitation Voltage:	KB3: 10 VDC (Nominal); KB3-C & KB2: 5 VDC (Nominal)
Current Rating:	KB3: 200 mA (Nominal); 1-4 Summed 350 Ω Bridges KB3-C & KB2: 80 mA (Nominal); 1-4 Summed 350 Ω Bridges (add 30 mA/350 Ω Bridge)
Power:	KB3: 115 VAC ±10% @ 50/60Hz (Incl. external 12 VDC/500 mA/15 Watts supply power) KB3-C & KB2: 6-Volt Rechargeable Lead Acid Battery; 20 hr Operation; 16 hr Recharge
Weight:	3 pounds (1.3 kg)
Warranty:	1 Year; Limited

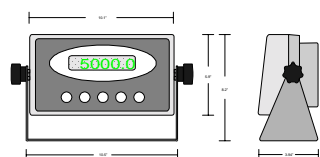
communications interface

Serial Ports:	Port 1: RS-232; 1200 To 9600 Baud; Full Duplex
Data Format:	8 Bits; No Parity; 1 Stop Bit
(PC Compatible)	7 Bits; Odd Parity; 1 Stop Bit
	7 Bits; Even Parity; 1 Stop Bit
	7 Bits; No Parity; 2 Stop Bits
Compensated Temperature Range:	-10° To +40° C / 14° To 104° F

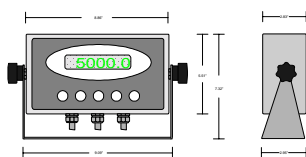


environmental

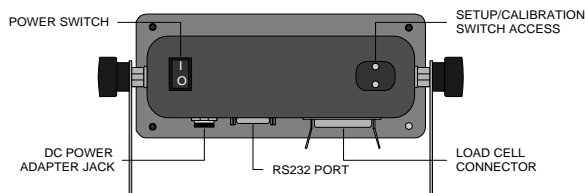
Operating Temperature Range:	-18° To +50° C / 0 To 122° F
Storage Temperature Range:	-25° To +70° C / -13° To 158° F
Humidity Range:	KB3: ABS Enclosure: 0 To 90% RH; Non-condensing KB2: Stainless Steel Enclosure: 0 To 100% RH; Washdown-Ready
RFI Protection:	Multi-Layer PCB
Surge Voltage Protection:	Excitation And Signal Lines; AC Power Line
Enclosure Construction:	KB3 & KB3-C: ABS; High Impact Plastic; Universal Mounting Stand KB2: 304 Stainless Steel; Universal Mounting Stand; NEMA 4/4X
Enclosure Dimensions:	KB3: ABS: 3.2" tall X 6.75" wide X 2.38" deep (81 mm X 171 mm X 60 mm) KB3-C: ABS: 5.9" tall X 10.1" wide X 3.94" deep (150 mm X 257 mm X 100 mm) KB2: Stainless Steel: 5.51" tall X 8.86" wide X 2.83" deep (140 mm X 225 mm X 72 mm)



KB3-C ABS LCD Display



KB2 Stainless Steel LCD Display



KB3 ABS LED Display