Indicators/Remote Displays

IQ 700HB Digital Weight Indicator





PART # DESCRIPTION

19191 IQ 700HB LED display, 115 VAC **34752** IQ 700HB LED display, 230 VAC

The IQ 700HB is an AC-powered indicator with a bright LED display and is part of our board-compatible series of indicators and scales. It is designed for general weighing and truck scale applications.

The IQ 700HB features a 300-truck ID memory and versatile setpoint capabilities as standard equipment. These improved software capabilities give the IQ 700HB the flexibility to monitor truck IN/OUT operations or control various process control operations like filling and checkweighing. Other standard features include dual serial ports (one bidirectional), gross/tare/net printout, power for eight 350-ohm load cells, and two programmable setpoints. Its NEMA 4X stainless steel enclosure protects electronics in demanding environments.

Applications

- Truck scales
- Industrial weighing
- · Filling and checkweighing

Standard Features

- Bright Light Emitting Diode (LED) display
- AC power
- Stainless steel NEMA 4X enclosure
- Front-panel digital calibration
- Automatic zero and span temperature compensation
- Excitation for eight 350 $\!\Omega$ load cells at 10 VDC
- Two fully programmable setpoints with "Zero Band"
- Two serial ports offering bidirectional RS-232 and simplex RS-232 or 20 mA current loop
- Gross/Tare/Net computation
- Time and date
- Accumulator
- 300-truck ID memory
- Versatile tilt stand
- Set-up parameters printout

Options/Accessories

30352 KBT7116-5 Panel mount kit
19281 2 Unlatched solid state output relays
15959 Unlatched dry contact 4-relay board
19576 BCD output (external)
19578 Analog output 0-10 VDC, 4-20 mA
22922 Analog output 0-10 VDC, 4-20 mA (internal mount)
55662 Combination relay and analog board
16815 Technical manual
16821 Additional operating manual

RICE LAKE WEIGHING SYSTEMS

Industrial Solutions on a Global Scale



IQ 700HB

LOAD CELL EXCITATION: 10 VDC, fixed, short-circuit proof

LOAD CELL CURRENT: 240 mA maximum (8 x 350Ω load cells)

LOAD CELL CABLING: 4- or 6-wire selective

ANALOG SIGNAL INPUT RANGE: 0.6 mV/V - 3.33 mV/V

ANALOG SENSITIVITY: 0.3 microvolts/graduation minimum

TRANSIENT OVERLOAD PROTECTION: ±100 VDC without damage—100 microsecond duration at 2% duty cycle

CONVERSION RATE AT FULL SCALE: 10 updates per second, typical

INTEGRATION TIME: 17 milliseconds to 28 milliseconds

RESOLUTION:

80,000 displayed graduations 100,000 internal graduations

DISPLAY BLANKING:

Occurs at 103% of selected capacity

DISPLAY INCREMENTS:

1, 2, 5, 10, 20, 50, 100

UNDERRANGE BLANKING: 400 graduations, typical

OVER/UNDER CAPACITY ANNUNCIATION:

OL = overload, UL = underload

LEAD ZERO BLANKING:

Standard, per NIST H-44 requirements

DISPLAY:

IQ 700HB: Six red Light Emitting Diode (LED) digits, 0.6" (15.2mm)

POLARITY INDICATION:

" – " sign

DECIMAL POINT:

Selectable—888888, 888888, 8888.88, 888.888, 888.888, 888888, 888880, 888800

LB/KG SWITCHING:

Front-panel selectable, can be disabled

FRONT-PANEL CONTROL SWITCHES:

Zero, Gross/Net, Auto Tare, Ib/kg conversion, Print, Tare Recall, SP1, SP2 and Data Entry Keys

FRONT-PANEL ANNUNCIATORS:

Center Zero, Net, Gross, Ib, kg and Motion (LED)

SERIAL OUTPUTS:

Port 1: Bidirectional RS-232 or 20 mA. Port 2: Simplex RS-232 or 20 mA current loop; truck IN/OUT only on port 2

AZM: (ZERO TRACK)

"Gross" mode only

SETPOINTS:

2 bi-polar setpoint outputs, TTL compatible equipped with "zero band" which operates at a programmable number of graduations around zero

AZM CAPTURE RANGE:

Selectable: Off, ±0.5, ±1, ±3 graduations

AZM APERTURE: Selectable: ±1.9% full scale, 100% internal selectable

WEIGHT AVERAGING: 8 internal selections

MOTION BAND:

Selectable: $\pm 1, \pm 3, \pm 5, \pm 10$ graduations

ZERO BAND:

Selectable: Off, 1, 2, 3, 4, 5, 6, 7, 8, 9,10 graduations

POWER INPUT:

115 VAC at 20 watts at 50/60 Hz (Optional 230 VAC, 50 Hz)

POWER CONSUMPTION:

20 watts typical

DISPLAY CHECK:

All digit segments and annunciators sequentially illuminated upon power application

OPERATING TEMPERATURE:

14°F to 104°F (-10°C to 40°C)

RATING/MATERIAL:

NEMA 4X stainless steel

WEIGHT:

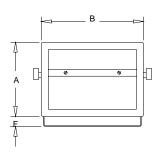
9.5 lb (4.31 kg)

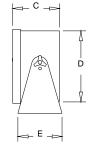
APPROVALS:

NTEP certified per H-44 at 10,000 Divisions, Class III/IIIL, CC# 89-023A2; Measurement Canada approved, S.WA-4131; CSA

WARRANTY:

One year limited warranty





DIMENSIONS

A =	6.62"	(168.1mm)
B =	9.12"	(231.6mm)
C =	4.18"	(106.2mm)

D = 6.34" (161.0mm) E = 3.94" (100.1mm) F = 0.90" (22.9mm)

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