

381 Synergy Series Digital Weight Indicator



As of: Friday, March 1, 2024



Standard Features

- LCD display
- Battery powered
- Push-button and keyed tare
- Two communication ports
- Five tactile buttons

Approvals

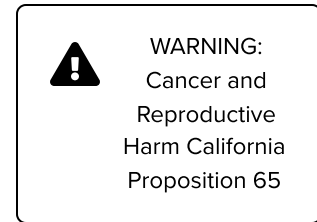


- Configurable print formats
- ABS enclosure

Options

- Time/date

**Measurement
Canada
Approved**



Performance Meets Economy

The 381 Synergy Series digital weight indicator is designed to provide reliable operation of straightforward weighing systems, including material handling and warehouse scales. The LCD weight display is clearly visible to operators, allowing the 381 Synergy to be mounted almost anywhere. A five-button keypad simplifies operation, and RS-232 and USB ports provide connection to peripheral equipment.

Reliable Battery-backed Performance

The 381 Synergy has an ABS plastic enclosure with two different battery options, enabling you to create the ideal portable weighing solution for your operations. The AA battery-operated model provides up to 40 hours of operation and has an IP54 rating. The Nickel Metal Hydride (NiMH) battery-operated model provides up to 80 hours of operation with an IP66 rating.

381 Synergy Series Specifications

Power:

Battery: AA or Nickel Metal Hydride (NiMH)
381-2D-AA Adapter: 115/230 VAC to 12 VDC
381-2D-NiMH Charger: 115/230 VAC

Power Consumption:

AA: input 0.8 A
(6 W while using AC adapter)
NiMH: input of 0.35 A

Battery Life:

AA: 40 hours with 1 × 350 ohm load cell
NiMH: 80 hours with 1 × 350 ohm load cell

Excitation Voltage:

5 VDC, 8 × 350 ohm or 16 × 700 ohm load cells

Analog Signal Input Range:

-0.3 mV to +30 mV
common mode voltage 0.7V to 3.3V

Analog Signal Sensitivity:

1 μV/graduation recommended

A/D Sample Rate:

5, 6, 10, 12, 20, 25, 40, 50, 80, 100Hz, software selectable

Resolution:

Internal: 8,000,000 counts
Display: 100,000

System Linearity:

Within 0.01% full scale

Communication Ports:

One full-duplex RS-232
One USB 2.0

Annunciators:

g, lb, t, tn, kg, oz, battery level, PT, LT, gross, zero, unstable, net

Display:

Six 1 in (25 mm) tall, LCD digits

Keys/Buttons:

5 tactile buttons

Dimensions:

(L × W × H)
8.50 × 3.17 × 5.06 in
(215.8 × 80.5 × 128.5 mm)

Temperature Range:

Certified: 14 °F to 104 °F (-10 °C to 40 °C)
Operating: 14 °F to 122 °F (-10 °C to 50 °C)

Rating/Material:

AA Battery: IP54, ABS
NiMH Battery: IP66, ABS

Warranty:

Two-year limited

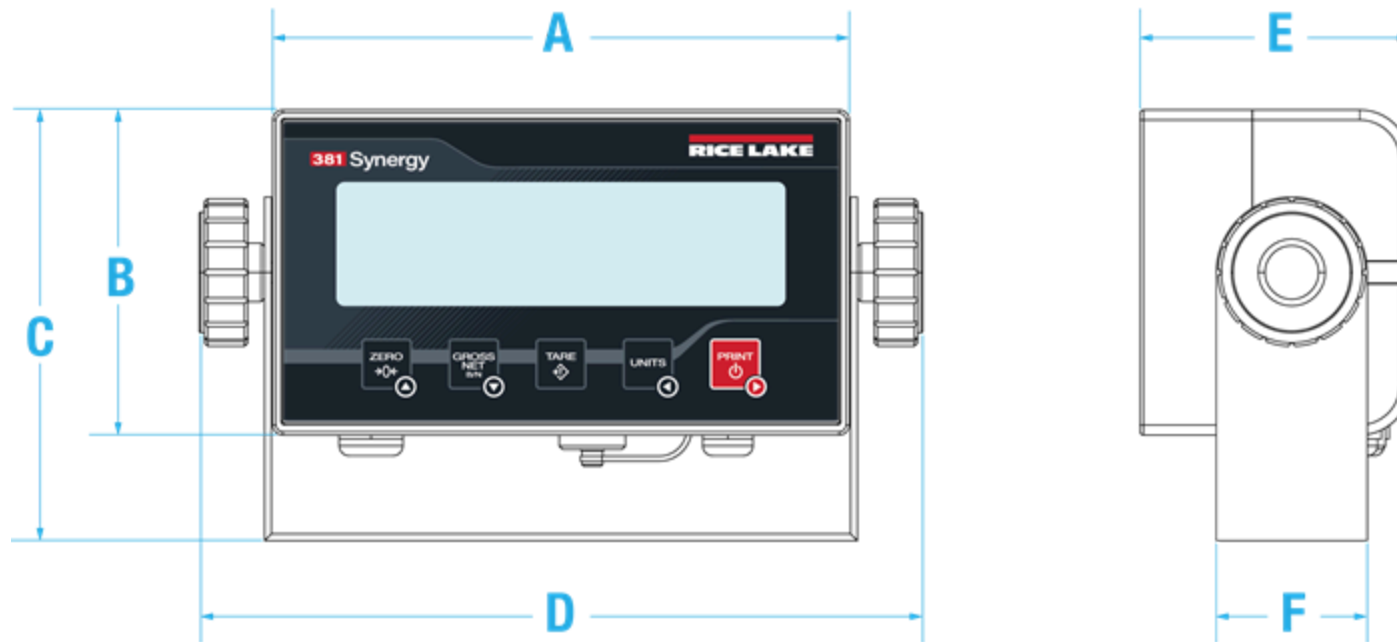
EMC Immunity:

10 V/m

Approvals:

NTEP 21-051 Class III/IIIL, 10,000 d
Measurement Canada AM-6184

381 Synergy Series Dimensions



Dimensions			
A	6.77 (172 mm)	D	8.50 in (216 mm)
B	3.82 in (97 mm)	E	3.17 in (81 mm)
C	5.06 in (129 mm)	F	1.77 in (45 mm)

Parts

Part #	Description
215695	Indicator,381 Synergy LCD, AA Alkaline
215696	Indicator,381 Synergy LCD, NiMH Battery

Options

Part #	Description
216647	T-Handle Hex Key, 3mm Allen-wrench
215273	Cable,RS232 DB9-RJ11 PC Communication Cable, 1.5m cable with DB9 Female RJ11 CONN
204258	Board Assy, Real-Time Clock, 380 RTC ADD-ON BOARD, ROHS

Replacement Parts

Part #	Description
215734	Power Supply Assy,12V 20W US Plug, 2.5mm ID, 5.5mm OD connector, Universal Input, 381-AA
185064	Power Supply, 0.35A 100-240VAC input, 5.0-14.4VDC, Max 1.0A Output Load Ranger Wireless Wheel Pads, Battery Charger for NiMH/NiCd Batteries, UL Approved

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