

# Weight Indicator

### **FEATURES**

- Large six-digit LCD display (0.8 in, 21 mm)
- · Built-in weighing and counting modes
- Alibi memory retains last 100k transactions
- Drives up to 10 x 350 Ω load cells (4/6 wires) or  $20 \times 700 \Omega$  load cells
- Two serial ports (RS232) for printing and networking, including various serial stream formats
- Selectable standard Digital I/O with four dry-relay outputs/two opto-isolated inputs
- Standard RS 485, full duplex Interface
- · Compatible with digital load cell interface
- 20 mA serial port for a remote display
- Stainless steel enclosure (IP67)
- Custom ticket printing—gross, net and setpoint format can be customized up to 300 characters and print time and date, unit ID, and consecutive ticket number
- Accumulation—weights are totaled, with armed print function
- Batching—up to eight batch steps with latched or continuous outputs for gross, net and delay setpoint. Actions include trip high or low, wait for standstill, print, accumulate and tare
- Keyed tare preset tare value can be entered when the gross weight is at zero
- Local/remote remote unit displays weight and transmits key press commands to the local unit
- User and operator password protection
- Audit trail tracking
- · Time and date
- · Plug and play ready for option card interchange

## **OPTIONS**

- Rechargeable battery 5.3 A/h, 18 h operation
- Analog output 0/2–10 VDC or 0/4–20 mA
- Additional digital I/O card, four dry-relay outputs/two opto-isolated inputs for setpoints and batching
- Ethernet TCP/IP and USB 2.0 board





## **APPLICATIONS**

- · Bench and floor scales
- · Counting scales
- Inventory control
- · Process weighing
- Truck scales
- · Various industrial systems

#### DESCRIPTION

The INTUITION 22i is a versatile, general-purpose weight indicator equipped with a large LCD and a wide range of industrial and commercial applications. With its bluish backlight display, the indicator is the perfect solution for a low-intensity-light environment. In addition, the unit is equipped with an optional rechargeable battery, which allows up to 42 hours of operation time. The 19-key panel enables easy operation, calibration, and setup of the instrument. Two password protection levels allow both the user and operator to access the instrument's setup and configuration menu. An integral printer interface allows easy, programmable, ticket formatting. Automatic date and time storage with the real-time clock option clearly documents all printout records. A broad range of communication interfaces allows streaming and printing in several channels.



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## Model Intuition 22i

## Weight Indicator

## SPECIFICATIONS

#### PERFORMANCE

Resolution Selectable up to 100000 dd

**Conversion Speed** 5-40 samples per second (selectable)

Sensitivity 0.5 µV/Vsi for approved scales, 0.1 µV/Vsi for non-approved scales

Full Scale Range Up to 4 mV/V (20 mV)

Analog Input Range 1 mV/V-4 mV/V

Linearity Within 0.01% of full scale

Excitation +5 V ±0.1 VDC with sense (6 wires)

Number of cells Up to 10 x 350 Ω load cells

Filters Rolling average or adaptive filter (selectable)

**Offset Drift** <13 nV/°C

Span Drift ≤13 ppm/°C

A/D Converter Type Sigma-Delta, ratiometric

Count By x1, x2, x5, x10, x20, x50

**Decimal Point** Between any digits of the weight display

Calibration Methods Dead load and span with optional post calibration tuning of mV/V values

#### Weighing Functions

Automatic zero tracking, motion detection, overload and underload detection, auto-zero on power-up, manual zero, manual tare, preset tare, net mode, unit selection (lb/kg/oz/tn/t/g)

Operating Modes

Normal (weigh), piece counting, configuration setup, user menu setup, test

#### Supported Applications

Custom ticket printing, basic weighing, accumulation, batching mode (up to 8 setpoints), preset tare, local and remote

#### Supported Features

Time and date, ALIBI memory (100k weight registrations), audit trail tracking, unit ID, sleep mode with automatic wakeup

#### **ENVIRONMENTAL**

**Operating Temperature** -10°C to +40°C (14°F to 104°F)

Storage Temperature -25°C to +70°C (-13°F to +158°F)

**Relative Humidity** 0-95% RH, non-condensing

#### **DISPLAY AND KEYBOARD**

Display 6 digits, 7 segments, LCD

**Digit Height** 21 mm

Status Enunciators Gross, net, center of zero, standstill, kg/primary units, lb/secondary units, counting, preset tare

Keypads 7-functions + 12 numeric keys (standard)

#### **ELECTRICAL**

Voltage 230 VAC @ 50/60 Hz

**Current (typical)** 2 A

**Power Consumption (typical)** 11 W

**Battery Operation (Optional)** 3.7 V, 5300 mA/h internal rechargeable battery, discharge time 18 h; standby time 56 h  $(1 \times 350 \Omega \text{ load cell, no options installed})$ 

#### DIGITAL INPUTS AND OUTPUTS

X2 Logic Input per Board 2 inputs, opto-isolated, up to 24 V input, active-low

X4 Logic Output per Board 4 outputs, dry-relay contacts, rating: 2 A, 30 VDC (up to 2 x I/O boards can be installed)

Without removing the standard digital I/O, user can have additional digital I/O as an option making a total of 8 logic outputs (dry-relay contact) or 4 optoisolated voltage inputs.

#### SERIAL COMMUNICATION

Serial Port 1 or 2 RS-232, programmable

Serial Port 3 RS485, programmable 4/6 wires, fully isolated

Baud Rate 9600–19200 bps, full duplex 7/8 data bits, even/odd/none

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## Model Intuition 22i

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#### Applications

Printer output, weight output, EDP output, local-remote protocols, and continuous output, remote printer

Ethernet Port (Optional) TCP/IP server and client with DHCP

Applications Printer output, weight output, EDP output, continuous output, remote printer

USB 2.0 Port (Optional) Host PC Device (OTG)

Applications

Printer output, weight output, EDP output, Load and save configuration data to flash drive

Note: The Ethernet and USB ports are located on the same optional board.

#### **ANALOG OUTPUT (OPTIONAL)**

**Resolution** 16 bit DAC

Voltage Output 0-10 V

Current 0–20 mA or 4–20 mA

#### Linearity

Voltage Output: 0.01% of full scale Current Output: 0.08% of full scale

#### **Offset Drift**

Voltage Output: ±2 ppm/C° of full scale Current Output: ±3 ppm/C° of full scale

Without removing the standard digital I/O, user can have additional digital I/O as an option making a total of 8 logic outputs (dry-relay contact) or 4 optoisolated voltage inputs

#### ENCLOSURE-STAINLESS STEEL

**Dimensions (L x H x D)** 9.5 in x 6 in x 2.75 in 24 cm x 15 cm x 7 cm

Mounting Tilt mount

Protection IP67

Wiring Connections Cable glands

#### **APPROVALS (ACCURACY CLASS III)**

**OIML R-76** 10000d single interval Test certificate no.TC8084

**CE Marking** 



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## **Model Intuition 22i**

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RTSP0070 = Bracket for option cards (supports up to two card slots) RTSP0580 = USB and Ethernet card installation kit RTSP0590 = Analog output card installation kit RTSP0600 = Digital I/O card installation kit RTSP0090 = Rechargeable battery RTSP0870 = RS485 card installation kit

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