

ULTRA INSTRUMENTS

PLC · HMI · WEIGHING SCALES

Precision Weighing Instruments & Automation Systems

WEIGHING SOLUTIONS CATALOG 2025

20,000+

PLC INSTALLED

25 Yrs

OF EXPERIENCE

4000 sq ft

MANUFACTURING

24x7

CUSTOMER SUPPORT

Established in 2001 under the leadership of **Mr. Utpal Shah**, Ultra Instruments manufactures high-quality controllers for machine automation, process control, and laboratory applications. Trusted by 20,000+ installations across India.

APPLICATIONS

● Billing Systems	● Packing Machines	● Filling Machines	● Blow Moulding
● Injection Moulding	● Cut to Length	● Flour Mills	● R.O. Plant
● Printing Machine	● Brewing Plant	● Cold Storage	● Car Parking
● Elevators	● HVAC	● Home Automation	● Any Custom System

Why Choose Ultra Instruments?

Ultra Instruments has been at the forefront of industrial automation since 2001. We design, develop and manufacture PLC-based controllers that are built to survive harsh industrial environments. With over 20,000 installations and 25 years of expertise, we deliver reliability you can count on — backed by 24x7 support.

<p>■ Customized Solutions</p> <p>Tailored electronics solutions to meet the unique needs of each client — no one-size-fits-all.</p>	<p>■ Rapid Prototyping</p> <p>Quick turnaround for developing prototypes and testing concepts — your timeline matters.</p>
<p>◆ Cutting-Edge Technology</p> <p>Latest innovations in electronics development, from PLC to servo drives to touchscreen HMIs.</p>	<p>■ Expert Engineering Team</p> <p>Highly skilled engineers with deep domain expertise in automation and process control.</p>
<p>■ Quality Assurance</p> <p>Rigorous QC processes and built-in diagnostics for easy troubleshooting at your site.</p>	<p>■ Cost-Effective</p> <p>Competitive pricing on every product without compromising on quality or reliability.</p>
<p>■ 24x7 Customer Support</p> <p>Round-the-clock support via phone and WhatsApp — we are always there when you need us.</p>	

OUR ESTEEMED CLIENTS

✓ Patanjali	✓ Jagmohan Pla-Mach Pvt. Ltd.	✓ Suraj (Pioneers in Plastics)	✓ Aryan Industries
✓ Micro Tools	✓ Shri Vishvakarma Industries	✓ Ranasons	✓ Global PET Industries Pvt. Ltd.

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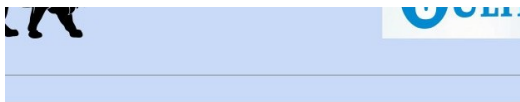
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Comprehensive Feature Set

◆ Piece Counting Accurate count by weight	◆ GSM Module Remote alerts & notifications	◆ Gram / Tola Display Multi-unit weight display
◆ Price Computing Automatic price calculation	◆ Auto-Zero Tracking Drift-free zero reference	◆ Printer Connection Label & ticket printers
◆ Bill Printing Integrated billing output	◆ Wind Shield Draught-proof precision	◆ Flame Proof Option Hazardous area rated
◆ RS232 Connection PC & legacy device link	◆ Extra Display Options Remote & large displays	◆ LED Display Red / Green / White LED
◆ Load Cell Card + I/Os Digital I/O integration	◆ Touch Screen HMI Modern operator interface	◆ PLC Integration Direct PLC connectivity
◆ Overload Protection Shock & overload safety	◆ Audio-Visual Alarm Overload indication	◆ Battery Backup Uninterrupted operation
◆ Data Record + USB USB backup of records		

Our Customized Weight-Based Projects

<p>■ QR Code / Barcode Printing</p>	<p>Weight-triggered automatic QR code and barcode label printing — integrates scanner, printer and load cell in one system.</p>
<p>■ Shipping Label Printing</p>	<p>Weight and parts-count based shipping label generation — auto-print when target weight is reached.</p>
<p>■ Billing Machine</p>	<p>Weight-based billing with barcode scanner and thermal printer — complete shop-floor billing solution.</p>
<p>■ Packing & Shipping Automation</p>	<p>Automated packing and shipping workflows triggered by weight measurement — reduce human error.</p>
<p>■ Item-wise Bill Printing</p>	<p>Weighing of individual items with automatic bill generation — multi-item support.</p>
<p>■ Piece Counting & Verification</p>	<p>High-accuracy piece counting by weight — verify part counts automatically before dispatch.</p>
<p>■ Quality & Quantity Control</p>	<p>Weight-based QC machine with CSV report generation — track pass/fail and batch data.</p>
<p>■ Drum Filling Machines</p>	<p>Automated drum and container filling by weight — stop valves at precise target weights.</p>
<p>■ Multi-Liquid Filling</p>	<p>Multiple liquid filling lines controlled by load cell modules — simultaneous multi-vessel filling.</p>



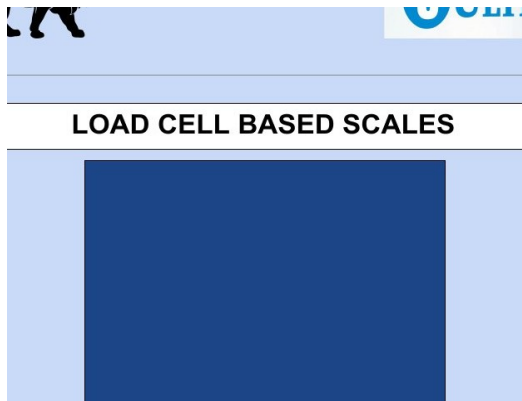
PRECISION WEIGHING SCALES



Capacity	600g
Accuracy	10mg (0.01g)
Technology	Magnet Based Load Cell
Windshield	Optional — draught protection
Flame Proof	Optional — hazardous areas
Display	White / Green / Red LED Options
Communication	RS232 Connector Available
Auto-Zero	Auto-Zero Tracking

KEY FEATURES

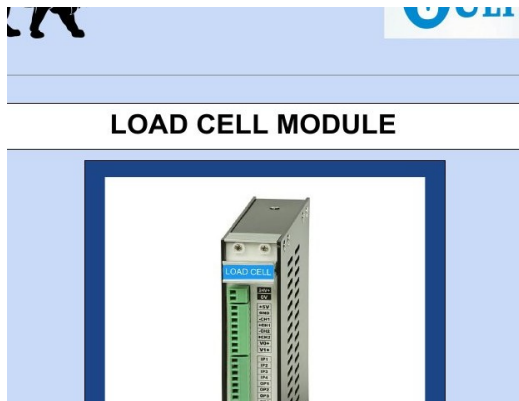
<ul style="list-style-type: none"> ■ 600g capacity with 10mg / 0.01g accuracy 	<ul style="list-style-type: none"> ■ Magnet-based precision load cell technology
<ul style="list-style-type: none"> ■ Windshield option for draught-free weighing 	<ul style="list-style-type: none"> ■ Flame-proof option for hazardous environments
<ul style="list-style-type: none"> ■ White, green or red LED display options 	<ul style="list-style-type: none"> ■ RS232 connector for PC/printer connectivity
<ul style="list-style-type: none"> ■ Auto-zero tracking for drift compensation 	<ul style="list-style-type: none"> ■ Compact bench-top design



1–2 Kg Model	0.1g accuracy
5 Kg Model	0.5g accuracy
10 Kg Model	1g accuracy
20 Kg Model	2g accuracy
30 Kg Model	5g accuracy
Up to 50 Kg	TableTop structure
50 Kg–2000 Kg	100g accuracy — Platform structure

KEY FEATURES

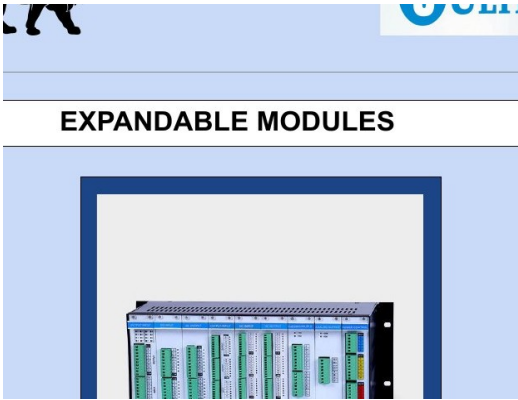
■ 7 capacity categories — 1kg to 2000kg	■ Tabletop structure for up to 50kg applications
■ Heavy-duty platform structure for 50kg–2000kg	■ 100g accuracy on platform scale models
■ All models feature Ultra precision load cells	■ Available with any standard feature from Main Features list
■ RS232 / RS485 communication options	■ Battery backup and USB data record available



Channels	2 Channel Load Cell
Digital Outputs	4 Open Collector Outputs
Digital Inputs	4 PNP-Type Inputs
Analog Outputs	2 × 0–10V
Communication	RS485 Modbus
ADC	Internal 24-bit ADC
HMI	7" Touch Screen + 4.5–10A SMPS
Memory	30 Programmes
Production Data	Hourly / Daily / Monthly — up to 1 Year

KEY FEATURES

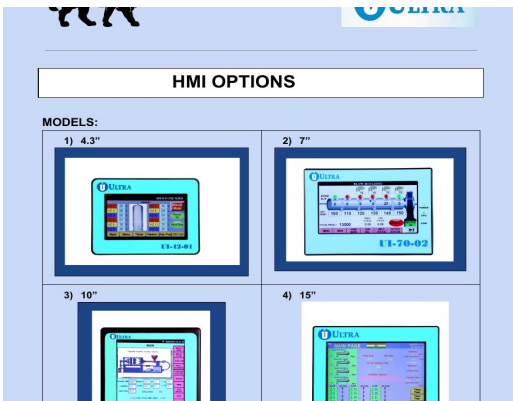
<ul style="list-style-type: none"> ■ 2-channel load cell signal conditioning module ■ 4 open-collector digital outputs ■ 2 analog outputs (0–10V) for process control ■ 7" touchscreen HMI included 	<ul style="list-style-type: none"> ■ 24-bit internal ADC for high-resolution measurement ■ 4 PNP digital inputs ■ RS485 Modbus for easy SCADA/PLC integration ■ Full production records up to 1 year
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Max Digital Inputs	128
Max Digital Outputs	128
Max Analog Inputs	64
Max Analog Outputs	32
Zone Power Control	32 Zones
High Speed Output	1 Channel

KEY FEATURES

<ul style="list-style-type: none"> ■ Scale up to 128 digital inputs and 128 digital outputs 	<ul style="list-style-type: none"> ■ 64 analog inputs for multi-sensor applications
<ul style="list-style-type: none"> ■ 32 analog outputs for complex control loops 	<ul style="list-style-type: none"> ■ 32-zone power control capability
<ul style="list-style-type: none"> ■ 1 dedicated high-speed output 	<ul style="list-style-type: none"> ■ Modular DIN-rail design — add I/O as needed
<ul style="list-style-type: none"> ■ Compatible with all Ultra weighing and PLC systems 	<ul style="list-style-type: none"> ■ Industrial-grade — CE-compliant design



Models	4.3" 7" 10" 15"
Type	Colour TFT Touchscreen
Communication	RS485 / RS232 / USB
Compatibility	All Ultra Systems

KEY FEATURES

■ 4 display sizes: 4.3", 7", 10" and 15"	■ High-brightness colour TFT touchscreen
■ Custom operator screens for each application	■ Production data display and trending
■ Recipe management and programme storage	■ RS485/RS232/USB connectivity
■ Compatible with all Ultra weighing and PLC models	■ Rugged, IP65-rated industrial housing

Ready to automate your process?

Talk to our engineering team today — we'll build the right solution for you.

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MANUFACTURING PLANT

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Industry-wise sample work & portfolio: www.ultraplc.in | Office Hours: Mon–Sat, 9am–7pm | WhatsApp: 24x7