

Batch Weighing System

PRC has developed & manufacturing "Batch Weighing System (Batch Controller)" which is suitable for all type of Batching plants i.e. Glass, Ceramic, Concrete, and also for very precision batch making in pharmaceuticals industries.

Batch controller measures the material quantity with preset values. It monitors & controls the feed material. With the help of using advance Micro-Controller and faster ADC, it captures data accurately and precisely.

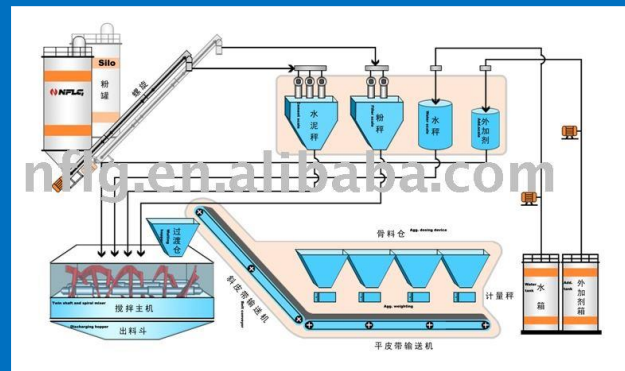
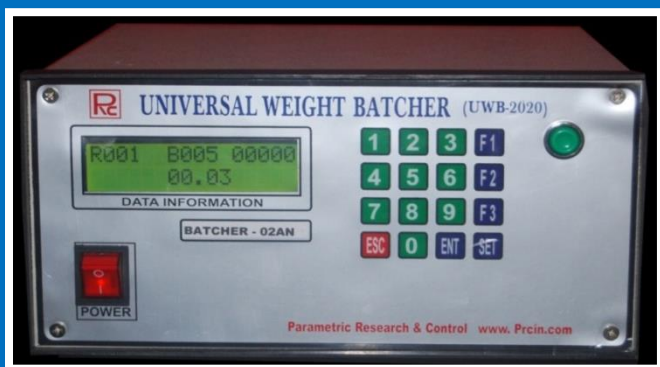
Salient Features:

- Highly dependable & insurable
- Easy to operate, user friendly
- Rugged & robust construction
- Protection through user password
- Easy installation & parameter settings
- Computer interface & print out facility



Technical Specification:

- | | |
|----------------|--|
| ➤ Application | Suitable to mix Concrete, Glass, Ceramic batch control. |
| ➤ Display | Double line LCD Display with Backlight. |
| ➤ Sensor input | Strain Gauge based for Load with auto calibration. |
| ➤ Inputs | 4 digital inputs. |
| ➤ Outputs | 12 potential free relay outputs |
| ➤ Memory | To store 255 batch record with real time & date / 255 recipes. |
| ➤ Discharge | Auto/Manual. |
| ➤ Printing | With date & time, manual as well as auto mode. |
| ➤ Keypad | 16 keys for parameter setting & control. |
| ➤ Analogue | One, Two, Three & Four. |
| ➤ Pulse | One & Two. |



Sample of Test Data Printout

AUTO WEIGH BATCH MIXER / CONTROLLER

SITE

MIX TYPE

VEHICLE NO.

BNO.	10MM	20MM	SAND	CMNT	FLSH	WATR	ADMX	TOTAL	RCPY	TIME	DATE
SET-	0020	0020	0020	0020	0020	020.0	00.50				
0001	0021	0019	0022	0021	0022	019.7	00.52	0125	0001	15:44:49	17-06-10
0002	0019	0021	0023	0019	0021	019.8	00.49	0123	0001	15:45:35	17-06-10
0003	0023	0022	0021	0021	0023	019.5	00.54	0130	0001	15:47:24	17-06-10
0004	0022	0023	0021	0022	0019	020.2	00.51	0127	0001	15:55:37	17-06-10
0005	0019	0021	0019	0021	0021	019.9	00.51	0121	0001	16:01:20	17-06-10
0006	0021	0019	0022	0021	0022	019.7	00.52	0125	0001	16:04:49	17-06-10
0007	0019	0021	0023	0019	0021	019.8	00.49	0123	0001	16:08:35	17-06-10
0008	0023	0022	0021	0021	0023	019.5	00.54	0130	0001	16:12:24	17-06-10
0009	0022	0023	0021	0022	0019	020.2	00.51	0127	0001	16:15:37	17-06-10
0010	0019	0021	0019	0021	0021	019.9	00.51	0121	0001	16:18:20	17-06-10

DELIVERY INFORMATION.....

SITE INFORMATION.....

SLUMP.....

ARRIVAL TIME.....

TEMPERATURE.....

UNLOADING TIME.....

SIGNATURE OF OPERATOR.....

SIGNATURE OF AUTHORIZED.....

SIGNATURE OF SITE INCHARGE.....

NAME OF AUTHORIZED.....

Batch Weighing System HMI

System Description:

PRC offers its most advance Batch Weighing Controller with a touch screen, menu driven HMI. The system is designed to control the batching process. PRC has developed & manufacturing “Batch Weighing System (Batch Controller)” which is suitable for all type of Batching plants i.e. Glass, Ceramic, Concrete, and also for very precision batch making in pharmaceuticals industries & FMCG.

Batch controller measures the material quantity with preset values. It monitors & controls the feed material. With the help of using advance Micro-Controller and faster ADC, it captures data accurately and precisely.

Salient Features:

- Highly dependable & insurable
- Easy to operate, user friendly
- Rugged & robust construction
- Protection through user password
- Easy installation & parameter settings
- Computer interface & print out facility (Optional)



System Function:

The system is enabled for HIGH and LOW volume settings. It starts releasing material from a hopper and after reaching to its preset limit, it will stop releasing the material. Then system discharges the material automatically using TIMER to the desired stage of processing. Once cycle is completed, a system saves the data and come to the home position for further batching.



On the front panel, system consists of a HMI touch screen which displays actual weight dispensed with LOW (LO) and HIGH (HI) preset limits. Touch screen also have on screen display of actual date and time.

Screen displays the no. of batched made, code of operator & supervisor which helps to user identify the persons engaged in the operation.

System indicates YELLOW light when in idle position. After starting the START push button, indicators turn GREEN to show the system status.

Screen is having six buttons wherein RESET button functions to RESET the cycle. AUTO button is meant for starting the cycle in automatic mode. MAN button is set for manual operation of outputs. EDIT button enables user to feed the parameters including high & low settings and many other settable parameters. ZERO & READ buttons are disabled.

RED push button is provided to make the system ZERO.

On the rear panel, connectors are provided to connect load cell inputs & outputs, mains power plug connector with built in fuse (2 amps)

Technical Specification for Data Acquisition System (HMI);

Machine controller	HMI touch screen
Screen size	4.3"
ADC	24 bit
Power supply	220 V AC, 50 Hz ($\pm 10\%$)
Front panel	Touch screen, ON & OFF push button
On screen display	Real time clock with date provided
Settable parameters	High & low limits
Protection	Password protection
Data storage	Through built in memory
Data transfer	Through USB device
Counters	Provided for cycle counting
Rear panel	Connectors provided to connect load cell,
Measurement	Measuring force in Newton/Kg (as set by user)
Status Indication	Visual (light) indication



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We also manufacture:

- ✓ Design & Development of Customized requirements
- ✓ Microcontroller Based Systems for Load, Pressure, Torque, Displacement, Temperature, Multifunction Digital Indicators, Batching Systems, Data Acquisition Systems, Air Leakage Testing System, Light Testing System, Computerization of Materials Testing Machines, Timers, Counters, Production Counter, Impact Tester, Hardness Tester.