

FS-6100A Digital Indicator Sales Report

1. FS-6100A Figure



2. FS-6100A Application

- **Automatic Accumulated Weighing Scale**
- **Automatic Multiple Materials Mixture**
- **Detergent Law-Materials Mixture.**
- **Feed Grains Mixtures, Food Material Mixtures.**
- **Phamacuetical Materials Mixtures.**
- **PVC Mixtuers.**
- **Synthetic Rubber, Fuel, Dyestuff, Fiber, Roughage Factory.**

3. FS-6100A Define

FS-6100A Controller is a Weighing Equipment which can produce the Products the user want by the weighing of a regular RATE for a various law Materials.

FS-6100A Weighing System is to charge and discharge Law-Materials with 2STEP Gate of BULK and DRIB Signal based on HIGH & LOW Tolerance as the user set up.

Also The product Mixture RATE can be set by FORMULA Format of Each BIN(Basic 40ea) as the user set up Before working.

Also The user easily can produce the products by calling the FORMULA of Each Batch according to a various Law-Materials.

2. FS-6100A Controller Feature

- a. This Automatic Accumulated weighing Controller was used to control a various Kinds of materials(basic 8kinds of materials : 8BIN) as the user set up.
- b. Each BIN can output each Material by the below 2step system
 - 1step(BULK) : TARGET - DRIB
 - 2step(DRIB) : TARGET - FALL
 - As EACH BIN will be controlled by these 2step Control system Every BIN
 - A correct material weight can output from BIN quickly as the user set up
- c. Printing function(**option**)
 - Centronics Parallel I/F
 - Available to record and print the actual weight of Each BIN
 - Available to count the TOTAL for Each BIN
 - Print Format was included with DATE,FINISH TIME,Each Bin Weight.
- d. Available to set up the range value as the user by Absolute value system
- e. Built In BACK-UP of all data while power off
- f. Full Digital Auto-Calibrations of ZERO and SPAN.
- g. High Speed A/D Conversion and High Resolution 100times/sec(1,000,000counts)
- h. Auto Zero Tracking Function.
- i. Built in compensation Circuit for Temperatuer variations and Noise
- j. Function to memory EACH Target weight,Drib,Fall,Over and Underweight.
- k. Available to call the Mixture Rate of 40kinds of Items the user set up from CPU.
- l. Easy to operate the controller by Numerial Key and Direction Key.
- m. HELP service for each operating instruction.
- n. Graphical LCD DISPLAY and setting a various ITEM informations.
 - Formula Edit Display for New Formula INPUT.
 - Level Bar Display for a weighing processing.
 - Histogram Display for the final data processed
 - Formula Histogram to check the processing easily per Formula
 - Total Histogram Display for total processing
- o. External equipment control functions(option)
 - RS-232C,RS-433/485,Current Loop,BCD input & output.

2. Each Definition For FS-6100A Weighing System

(1) BIN :

It means a structure which can stock each materials,FS-6100A can use 8BIN basically.
Also the Abbreviation of BIN is "B" on the screen.

(2) Formula

It means The Parameter point value which preset the Material Weight for Each Product Weight as the user asked on Each Number.

These Formula can be preset until 40Ea(No 1 ~ No 4).

Also the Abbreviation of Formula is "F" on the screen.

R.F) Formula will be preset without a regular Sequence and can be preset with double.

(3) Target

It mean the final weight the user want.

(4) DRIB

It can preset the weight to discharge the material by 2Step Gate for a precise weight.

(5) FALL

It can preset the weight discharged to Hopper Scale after closing the material Gate.

(6) 1Step Gate

It means 90% or BULK and means the largest Materials of 2 Gates.

It stopped the discharger for the weight reduced DRIB from TARGET.

1 Step = TARGET - DRIB.

(7) 2Step Gate

It means 100% or DRIB and also the samller Materials of 2 Gates.

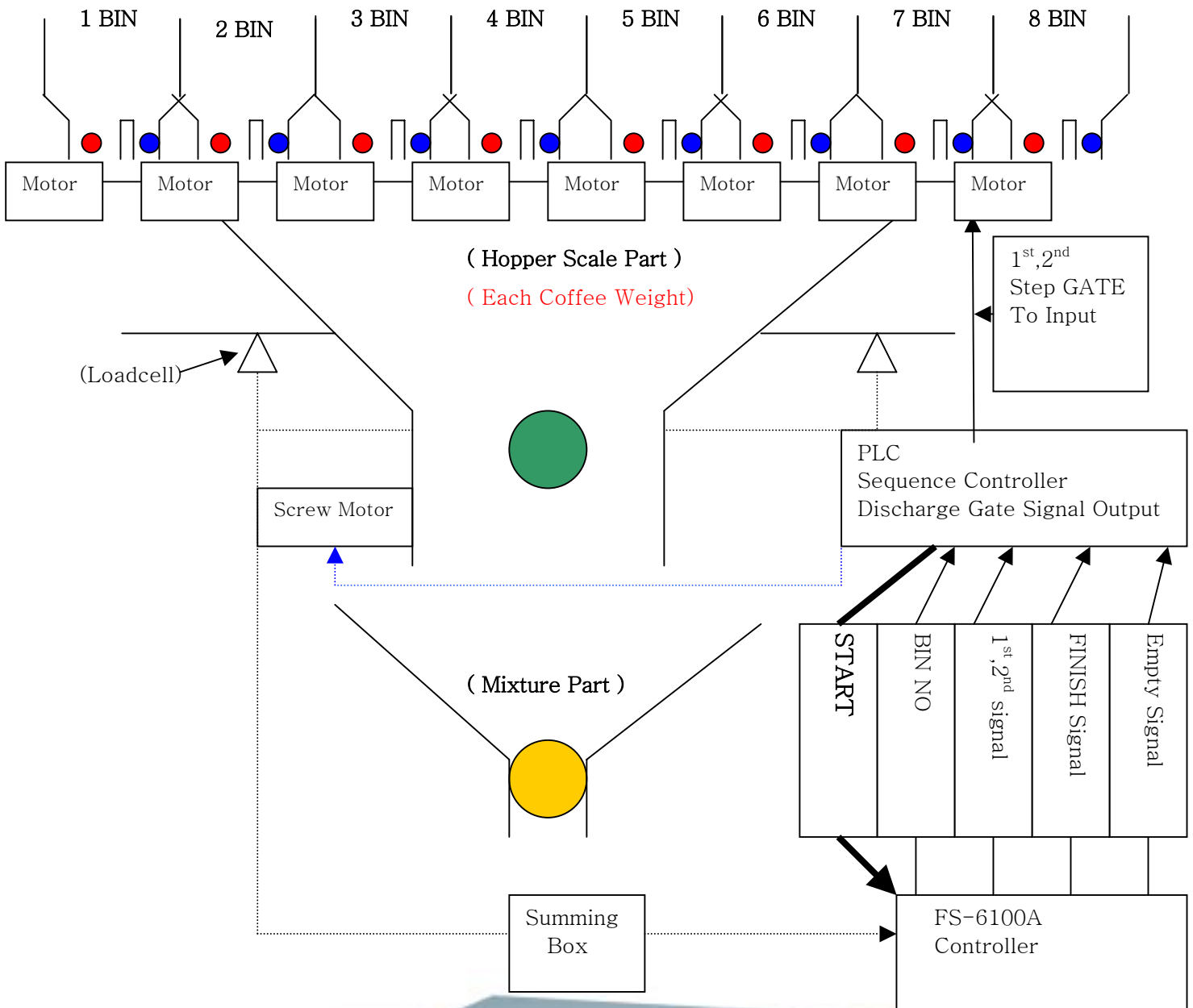
It stpped the discharger for the weight reduced FALL from TARGET.

2 Step = TARGET - FALL.

3. The Configuration of Weighing Part.

It will be discharged to the Hopper Scale part by 2STEP Gate according to the Sequence Of Each Formula which the user set up.

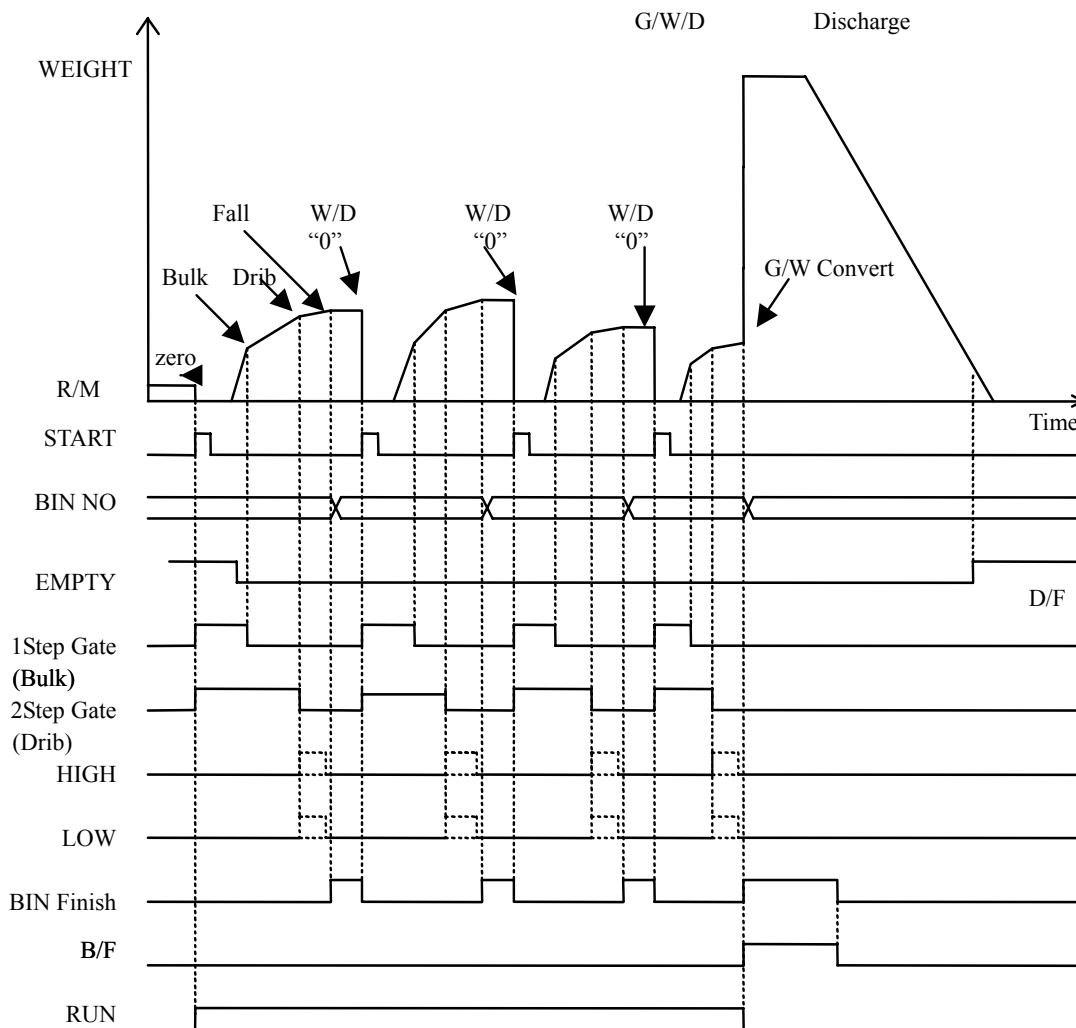
Also It work the next BIN after a BIN Finishing as the user set up



4. The Configuration of Relay Signal Procedure

- (1) **START**: It is the Signal to start the weighing (**PLC >>>> FS-6100A**)
- (2) **BIN NO** : **BIN NO** of Material which will be weighed **>>>> PLC**
- (3) **1,2STEP** : The **OPEN/CLOSE** of Gate **>>>> PLC**
- (4) **BIN FINISH** : **Finish Signal** of BIN Material **>>>> PLC**.
- (5) **BATCH FINISH** : **A Final Signal** after finishing the last BIN **>>>> PLC**.
- (6) **EMPTY WEIGHT** : **the Signal** of Case which a weighing Material was under Empty on the Hopper Scale **>>>> PLC**.
- (7) **HIGH** : **HIGH Relay** will be sent when the weighed result was excessive to the HIGH LIMIT of TARGET Weight.
- (8) **LOW** : **LOW Relay** will be sent when the weighed result was excessive to the LOW LIMIT of TARGET Weight.
- (9) **RUN** : **RUN Signal** run from the BATCH START to BATCH FINISH by START Signal. Even if it stopped by STOP Signal, RUN Signal continues to work
But, **RUN Signal** can be removed by BATCH FINISH Signal and RESET Signal ONLY
- (10) **STOP**: **STOP Signal** is used to stop the weighing WORK Temporarily.
It don't need for a normal Work.
- (11) **RESET**: **RESET Signal** is used to Cancel the Work.
- (12) **Compulsory START** : Even if a final weight was Excessive to HIGH Or LOW Limit Manage ,then if the user want to continue to run the work,
The user can continue to work by pushing START Key .

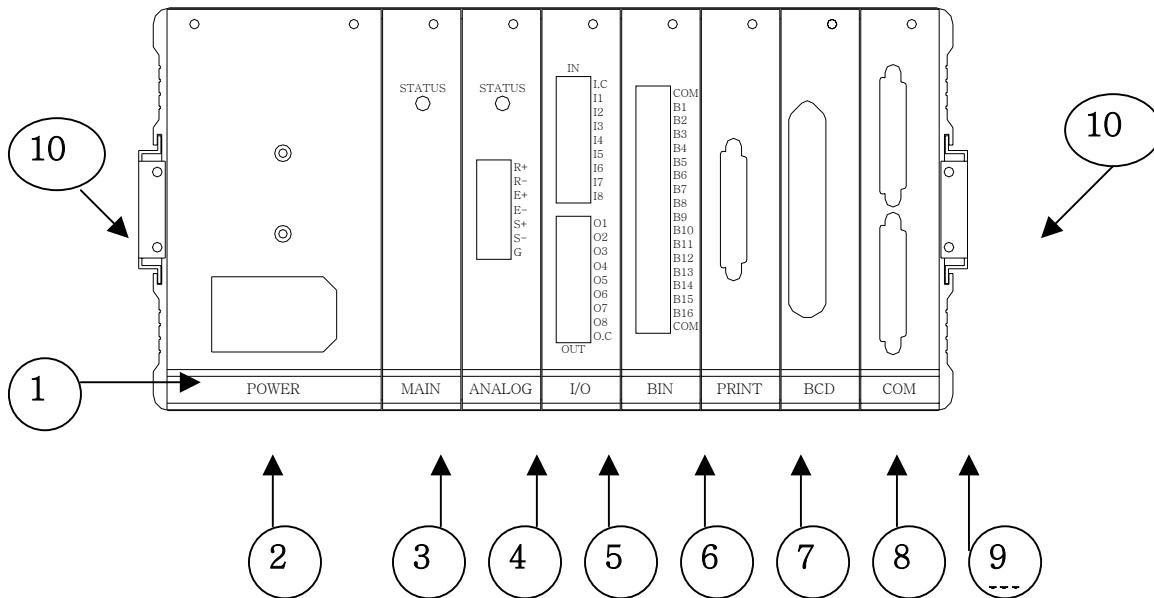
5. The flow chart for Relay Time Signal



*** Abbreviation ***

- G/W/D : Gross Weight Display
- W/D : Weight Display.
- R/M : Remained Materials
- D/F : Discharge Finish

6 FS-6100A Real Side Function



① Power Switch : Fuse + Plug

② Power Board : AC100V ~ 240V 50Hz/60Hz

③ Main Board : CUP,Memory,Program Rom

④ Analog Board : Analog Signal of Loadcell >>>>> Digital Signal Conversion

In case of 6pcs Loadcell : Dip-switch(No 1,2) = OFF.

R+ = Return Line of E+

R- = Return Line of E- (Dip-switch(No 1,2)=ON for No use)

E+ = Power Line of +5V

E- = Power Line of 0V

S+ = + Signal Line

S- = - Signal Line

⑤ I/O Board : Each 8pcs for External Control Input and Output Mode.

- Input Signal must be connected by No Voltage of over 50Msec.

- Output Signal must be connected by No Voltage of under 250V/0.2A

⑥ BIN Board : Board to output the relay until Max,16BIN.

INPUT				OUTPUT			
1	STOP	5	ZERO	1	EMPTY	5	1 st Gate
2	START	6	NO DEFINE	2	RUNNING	6	2 nd Gate
3	RESET	7	NO DEFINE	3	BIN FINISH	7	HIGH Error
4	Manual START	8	NO DEFINE	4	BATCH FINISH	8	LOW Error

⑦ PRINT Board : Can all data to the printer by Centronics Parallel.

⑧ BCD Board : BCD I/F for total data

⑨ COM Board : Serial I/F for RS-232C,RS422/485,Current

⑩ Fixed Braket : Can fix this control to the panel.