

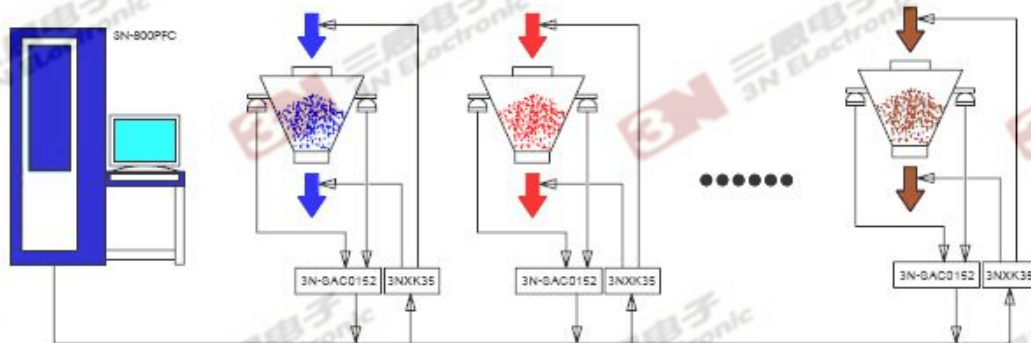
Static weighing

Multi-access control(1~16 Channels)

Low price

3N800PFC automatic constant feeding system

Device and work principle



3N-PFC multi-access(1~16)static automatic constant feeding system

SUNEN ELECTRON

SHANDONG SUNEN: 0536-3152451, 3152452, 3152453

BEIJING SUNEN: 010-88900618, 88900718, 88900318

GUIYANG SUNEN: 0851-4850733

1. 3N800PFC work principle

See attachment diagram.

Load vibrator B loads materials from silo A into the bucket C. Increasing materials checked by high precise load cell. After be calculated by 3NSAC0152, this varies signal is sent to 3N800 controller.. In 3N800 controller, this electrical signal is calculated into a weight with a standard unit (Kg, ton, Lb). So the controller measures the weight of loaded materials in bucket and compare with pre-set target. As soon as the weight is up to target, load vibrator stops. The controller sends a discharge signal to XK35PC executor. The executor drives electromagnet F to open discharging gate and to let the materials out. This procedure repeats.

There is a compensation algorithm in the control system. It automatically correct the discharging weight in every cycle in case of error occurs. That makes a high precise weighing and feeding.

2. Device Description

2.1 A 3N800 can control 1~16 bucket scale at same time.

2.2 Every bucket scale includes (probably more than one scale in one system):

- 1 Load vibrator (for powder material, it is screw feeder)

- 1 bucket scale

- 1~3 Load cells

- 1 wiring box (Not necessary in some cases)

- 1 3NSC0152 unit

- 1 3NXX35PC unit

- 35 meters of Shielded cable

- 1 accessories assembly

2.3 3N800 controller includes (for one system):

- 1 3N800 host (Chinese/English)

- 1 LCD monitor

- 1 waterproof keyboard KBD70A

- 1 control cabinet and console

2.4 Safeguard Grade:

- Control cabinet: IP54.

- Load cell: 3NSAC0152, KBD70A: IP65.

2.5 The capacity of the vibrator and bucket scale are determined according user requirement. The data below need from users:

A: To every kind of materials, the normally flow (ton per hour) and characteristic (granularity).

B: How many kind of materials, and in nature, the weight per stere (unit: t/m^3)

2.6 Precision: $\pm 0.5\%$

2.7 The capacity of one scale: 0.1t/h~300t/h

Notice: Not allow the electromagnet piece to be connected overtime. That will be overheat and damage.

3. Components

3N-XK35 thyristor power.



3NSAC0152 signal transmitter



- Notes:
1. 1~3 Load-cell
 2. Terminals 8 and 10 is connected inside XK35PC.
 3. With wiring box or not, wire of load cell are same.
 4. The diagram is wiring for one scale.
 5. 3N800 can control 1~16 scale at same time.

4. 3N800 Control System



face picture of 3N800



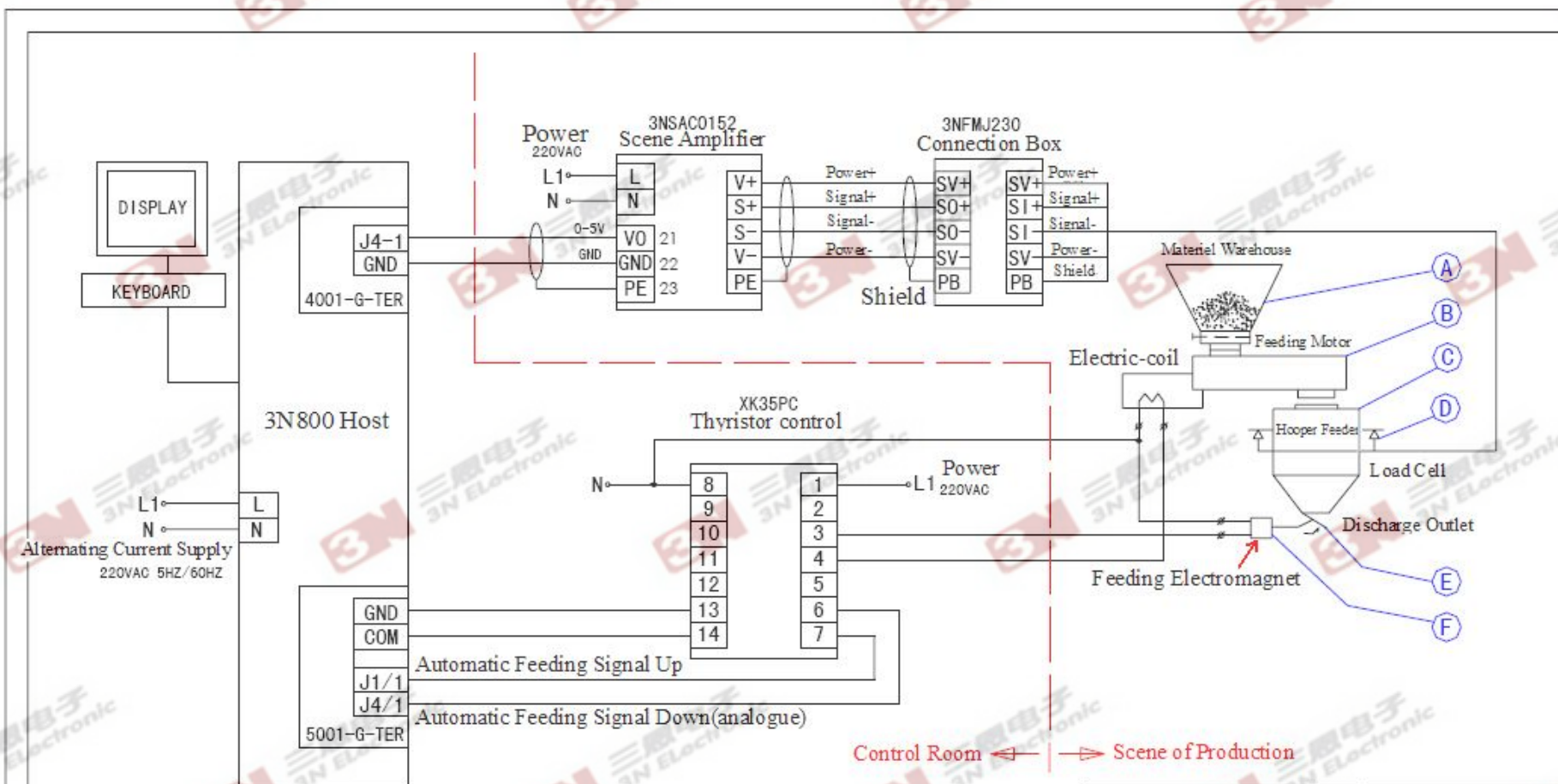
the back of 3N800



monitor
host
hermetic keyboard
line bank

5. 3N800 controller and its electrical system





3N800 can control 1~16 feeders of funnel-shaped at same time.

Alarm: Preventing the third feed from connecting Electric motor, in order to avoid danger.

- Explanation:
1. Only 1~3 Load-cell on the feeder of funnel-shaped.
 2. Terminals 8 and 10 is connected inside XK35PC.
 3. Whether with connection box or not, the connection of sensor is no change.
 4. It is the system connection picture of one feeder above.
 5. 3N800 can control 1~16 feeders of funnel-shaped at same time.

山东三恩电子有限公司 SUNEN ELECTRONIC.LTD TEL:86-536-3152451		工 程 名 称	3N800PFC
主任工程师	专业	ELE	斗式秤电振机給料系统 电气原理/接线图
专业负责人	设计	sundai	
审 核	制图	yangjinyang	
日 期	比 例	图 号	

3N 三恩电子
3N Electronic

3N 三恩电子
3N Electronic

3N 三恩电子
3N Electronic

3N 三恩电子
3N Electronic

三恩电子
3N Electronic

3N 三恩电子
3N Electronic

3N 三恩电子
3N Electronic

3N 三恩电子
3N Electronic

nic

3N 三恩电子
3N Electronic

3N 三恩电子
3N Electronic

3N 三恩电子
3N Electronic

3N 三恩电子
3N Electronic

3N 三恩电子
3N Electronic

3N 三恩电子
3N Electronic

3N 三恩电子
3N Electronic

3N 三恩电子
3N Electronic

电子
Electronic

3N 三恩电子
3N Electronic

3N 三恩电子
3N Electronic

3N 三恩电子
3N Electronic

3N 三恩电子
3N Electronic

3N 三恩电子
3N Electronic

3N 三恩电子
3N Electronic

3N 三恩电子
3N Electronic

3N 三恩电子
3N Electronic

三恩电子
3N Electronic

3N 三恩电子
3N Electronic

3N 三恩电子
3N Electronic

3N 三恩电子
3N Electronic

3N 三恩电子
3N Electronic