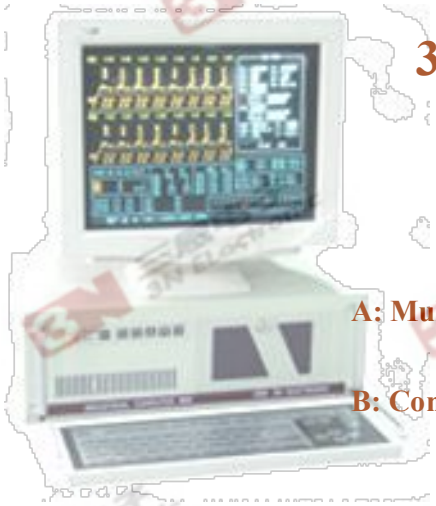


3N-800 industry computer 16-Loop feeders Controlling system

A: Multi-loop control and low prices.

B: Control multi-kinds of feeders in one controller

C: A variety of control functions

Mechanical feeder controlled by 3N800:

	Type of Mechanical feeder	Suit for materials
1	Feeder with speed vary	Smash particles and powder
2	Feeder with speed constant	Smash particles and powder
3	Spiral feeder	Powder
4	Solid Flowmeter	Powder and regular granular materials
5	Loss-Weight Scale	Smash particles and powder
6	Bucket Scale	Smash particles and powder

3N-800 System Description:

(1) Main feature of the hardware is the use of standard bus structure, and the standard industrial computer metal chassis, and waterproof keyboard against dusts, and adopting fully enhanced connector so that the machines in the wiring structure more solid, more reliable contact.

(2) It can control 16 loops of equipment (like feeders) that can be controlled in a group or in two independent groups. The group can be directly set up on controllers' screen.

(3) Remote control is achieved by communication with RS485 standard.

(4) Different colors for running, stop and alarm status to make users know their work status more conveniently.

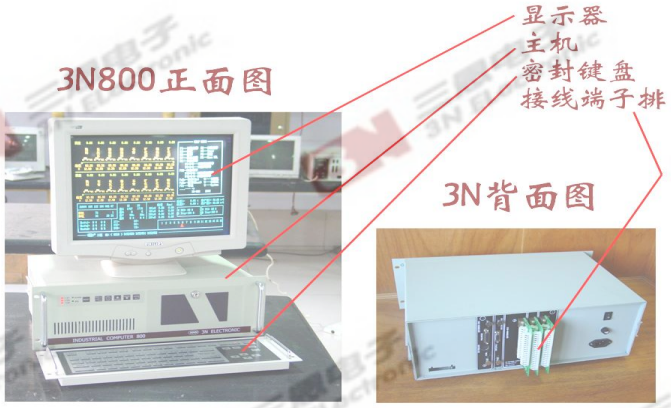
(5) Dual microprocessors Speed detective board transfer the speed signal into main

processor. Without inverter, like PV160, PV170 on site, it gets high system reliability.

(6) Password protects important data from ransom alteration, which ensure data to be more safety.

(7) Flow tracing function:

When feeder is running，real material flows sometimes less than expect because of materials jam up. System will start this function automatically; accelerate motor of feeder and increase materials flow. Some time real materials flow is more than expected because of collapse of the materials. System starts this function automatically and reduces materials flow to be expected. The tracing function makes the result more precise.



3N-800 System Specification:

(1) General Precision:

3N-800HT ± 0.5%; (Including mechanical and electron)

3N-800TS, 3N-800TD ± 0.5%; ((Including mechanical and electron)

(2) Precision of Controller: ±0.1%.

(3) Single Feeder Capacity:

3N-800TS、3N-800TD max :240 t / hour

3N-800HT max: 400 t / hour

(4) 16 loops of controlled feeders can be divided into two groups. Separately control and not influence each other.

(5) With mill load detector, fulfill a closed-loop control with mill load system.

(6) With communication unit, form a network with center controlling room. (RS 485, PROFIBUS)

(7)Optimized design and industrial-grade processor and ASIC VLSI integrate circuit.

(8) A/D weight input signal: 16 channels, 0～5V standard signal input,

16 bits of switch input, photoelectric isolation.

(9) Speed detected by pulse signal input,0～1200Hz

(10) D/A output:16 channels, 0～5V standard signal output,
16 bits of switch output, photoelectric isolation.

(11) Colors and high resolution CRT monitor, Chinese and English (SVGA).

(12) Printing report with Chinese (two kinds of reports).

(13) Dynamic and intuitionistic, graphics and digital mixed display.

(14) 5-window pages information display.

(15) Automatically stop with fault alarm (usually caused by materials jam up). The time section which alarm last before stop could be set on keyboard..

(16) Password protection for important data.

(17) The duration of Calibration and zero procedure could be set according mechanical characteristics and get higher accuracy.

(18) Ton pulse output (the pulse can be used as quantitative controlling signal.)

3N-800 local photo of work-bench

3N-800 console and control cabinet