

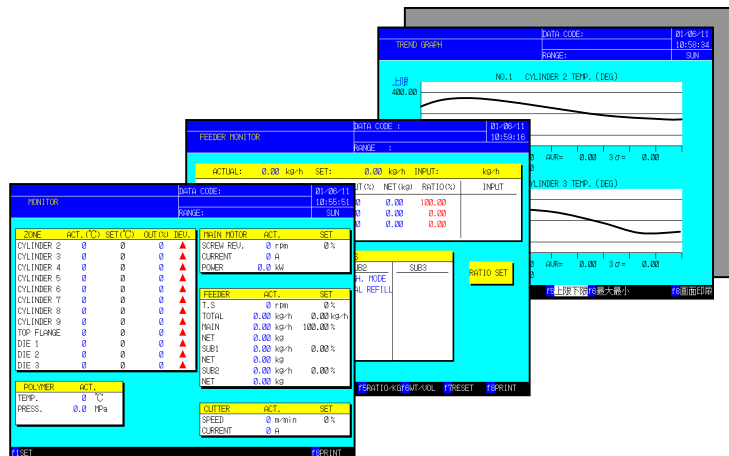
New **EXANET** of Extruder Controller Communication System

These years, in the field of plastic processing machinery, the quality control and production control are being increasingly automated for workload reduction and for better compliance with ISO 9001. At the same time, the recent advancements in communications technologies have facilitated the construction of remote monitoring and centralized monitoring systems. Customers are increasingly demanding specifications requiring such technologies.

We have improved the **EXANET**, our well-reputed dedicated extruder controller, in controllability and reliability by introducing the state-of-the-art technologies such as 64-bit processor to launch "New" **EXANET** that flexibly meets the customer needs.



Operation panel



LCD screen

1. Advantages

- **Flexible System Configuration**

Using the distributed control system that utilizes LAN technology, the operating section may be installed compactly on the extruder side as separated from the panel, thus improving the ease of operation.

- **Easy Operations**

With a high-visibility large-sized color LCD (10.4 inch TFT), you can set the operating conditions in the fundamental screens. And the dedicated sheet key allows you to start and stop the equipment at your position. All of these enables anyone easily operate the equipment allowing easy introduction.

- **Facility in Constructing Remote Monitoring Systems**

The standard dedicated communication port allows you to construct the remote monitoring system. Furthermore, it is also compatible with Ethernet and other existing communication environment and remote maintenance.

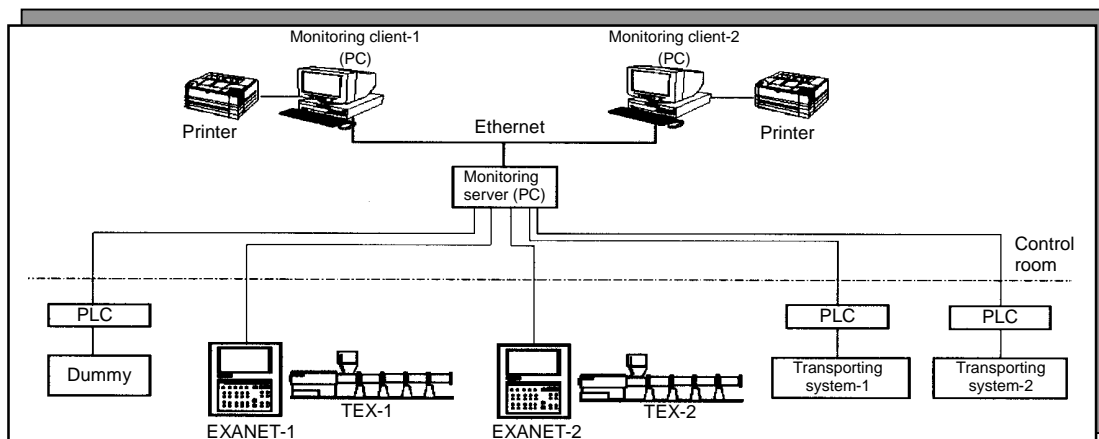
- **System Compatibility**

Our material feeder may be easily built in a distributed control system, allowing the extruder and the feeder to be integrally controlled through a common controller, realizing improved controllability and saved space for control equipment.

2. Specifications

Items	Specifications	Characteristics
CPU	64-bit RISC	High-speed calculation
Liquid Crystal Display	10.4-inch TFT color	High-brightness type with improved visibility
Keyboard	Dedicated sheet-type keyboard (dust-proof)	Dedicated sheet keyboard with good operability
Data card	40 conditions/card	Integrated operation grade management
I/O unit	AI/AO up to 60 points DI/DO up to 500 points TI (thermocouple) up to 100 points PI (pressure sensor) up to 30 points	Sufficient number of I/O points to meet large-scale systems
Communication port	Standard equipment for both maintenance and host (RS-232C×2) Could meet RS-422 or Ethernet as requested	Easy to build a flexible and higher communication system
Printer output	Equipped with D-SUB 9-pin port as standard ESC/P or PC-PR201/40 supported	Reduced workload by the print of process data and print on both sides
Process control	Temperature control (cylinder temperature, various tanks etc.) Material feeder control Gear pump pressure control (and other PID controls)	High-accuracy control by high-speed computation
Operating functions	One-time setting of operating conditions Alarm history Trend graphs Automated temperature rising	Facilitated quality control and defect analyses
Maintenance functions	System diagnostics Sequence monitor (option) Remote maintenance (for future use)	Increased reliability with abundance of functionality

3. Sample Remote Monitoring System



We are confident that the extruder controller EXANET helps promote factory automation of extrusion plants for diversified applications such as compounding and recycling, and improve factory efficiency and product quality.

For more information ; THE JAPAN STEEL WORKS, LTD.

Sales Dept./Tokyo

Gate City Osaki West Tower 1-11-1, Osaki, Shinagawa-ku, Tokyo, Japan 141-0032
Phone : +81-3-5745-2072 Fax : +81-3-5745-2077

Hiroshima Plant

6-1, Funakoshi-minami 1-chome, Aki-ku, Hiroshima-city, Japan 736-8602
Plastics Machinery Dept.
Phone : +81-82-822-5515 Fax : +81-82-824-1512

Home page address : <http://www.jsw.co.jp/>