Control system

KD-T3000 Centralized operation control terminal

Centralized operation terminal to control multiple feeders. It is able to control and monitor multiple feeders from one panel by using a Color LCD touch panel for all operation functions. Easy operation by using icons. Language is selectable to English, Chinese, Japanese or Korean. Features include; high quality control, reliability, ease of maintenance and supports efficient production control.

Operation: Icons on display make it easy to use.

1 Enhanced operation by use of Icons on the screen layout.

Operational buttons are Icons on the display. Less operator training required due to advanced graphic design of the display for easy understanding of its operation and functions.

2 Multilingual: Easy to change between languages (English, Chinese, Japanese and Korean).

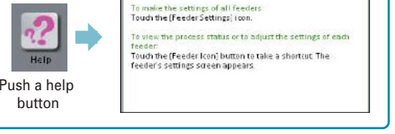
Can be operated in four languages in standard specification. Language can be changed at any time even during operation. This is useful to train multilingual operators how to operate the unit.

Push a language button

Displaying language selection window

3 Help function: Each screen has this function to give an explanation on its operation.

Basic function and operation can be understood without the need of an operation manual.



Push a help button

Quality control: Long-term data logging

Five years of data can be recorded. Data can contribute to resolving problems by identifying conditions of the system over the long term.

The data can be seen and edited at the customer's computer with output via a USB thumb drive in CSV file format.

Sample of edited logging data

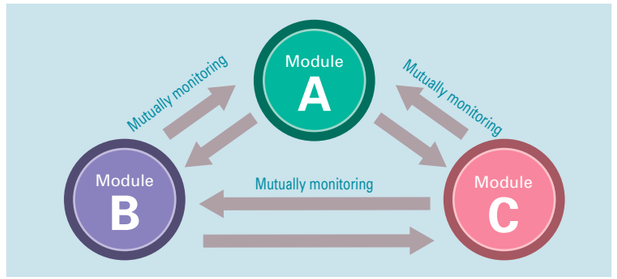
			No.1 CE-W-3		
Date	Time	Worker	Flow set (kg/h)	Actual flow (kg/h)	Integrati (kg)
Sep.30	1:00	Tanaka	50	50.000	7.29
	4:00	Tanaka	50	50.000	157.29
	7:00	Tanaka	50	50.000	307.29
	10:00	Tanaka	50	50.000	457.29
	13:00	Tanaka	50	50.000	607.29

*Available logging data : Running start date, date, Flow-SV (kg/h), Flow-PV (kg/h), Integrated Counter (kg), Deviation (kg), MV1(%), MV2 (%), Weight (kg)/Load (%)

Reliability: Supports stable measurement

Program surveillance system: Multiple program modules monitor each other. When a program is stopped, the surveillance system restores it.

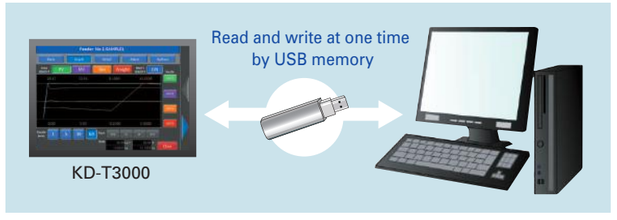
System preservation: Uses OS system for industrial built-in PC which has a function of system preservation. This prevents the corruption of system files when unexpected electrical power problems occur.



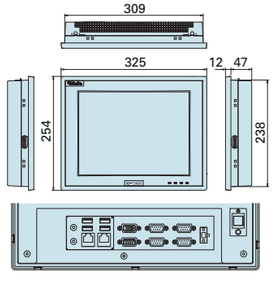
Ease of maintenance:

Reassurance in case of trouble

Back-up parameters of connected controller can be easily stored via USB thumb drive. If a system problem occurs, restoration of the back-up parameters can be done immediately.



Dimensions



Specifications

Item		Description
Number of feeders controllable		20 feeders/line (Connected by 3000 series)
Monitor screen		12.1- TFT Color LCD with touch panel
Major functions	Setting	Setting combination (999 kinds), mixing ratio setting, setting of individual flow rate.
	Operation	Start/Stop (Line), Start/Stop (Individual), Local/Remote, Feed terminal automatic control, Production process stop, Low-low stop
	Graph display	Flow-PV rate, MV, deviation, load rate
	Alarm record	Record of alarm events (Memory capacity:1000 events) Graphic display for Flow-PV, MV, deviation, and load rate after alarm
	Languages	Japanese/English/Chinese/Korean
	Memory Items	Flow-SV, Flow-PV, Integrate, MV, deviation, load rate to internal memory. These data can be output via USB device in CSV file format.
CPU		1.86GHz
Memory		4GB
Memory device		32GB SSD
OS		Windows® Embedded OS
Dimensions (mm)		325(W) X 254(H) X 59(D)
Panel cut dimensions (mm)		311 X 240
Dust and Waterproof		IP65 compliant (Front panel only)
Power supply		DC 12~24V
Operational conditions		Temperature: 0 - 50°C Humidity: 85% RH or less (No condensation is allowed)
Design conditions		Temperature: -20 - 60°C Humidity: 85% RH or less (No condensation is allowed)
Weight		3.3kg (7.27lb)
Interface	LAN	10/100/1000Mbps (RJ-45) X 2 port
	USB	4 port
	Host communication	RS-223C X 1 port
Option	Analog input/output	Total flow-SV input, Total flow-PV output, DC1~5V/4~20mA