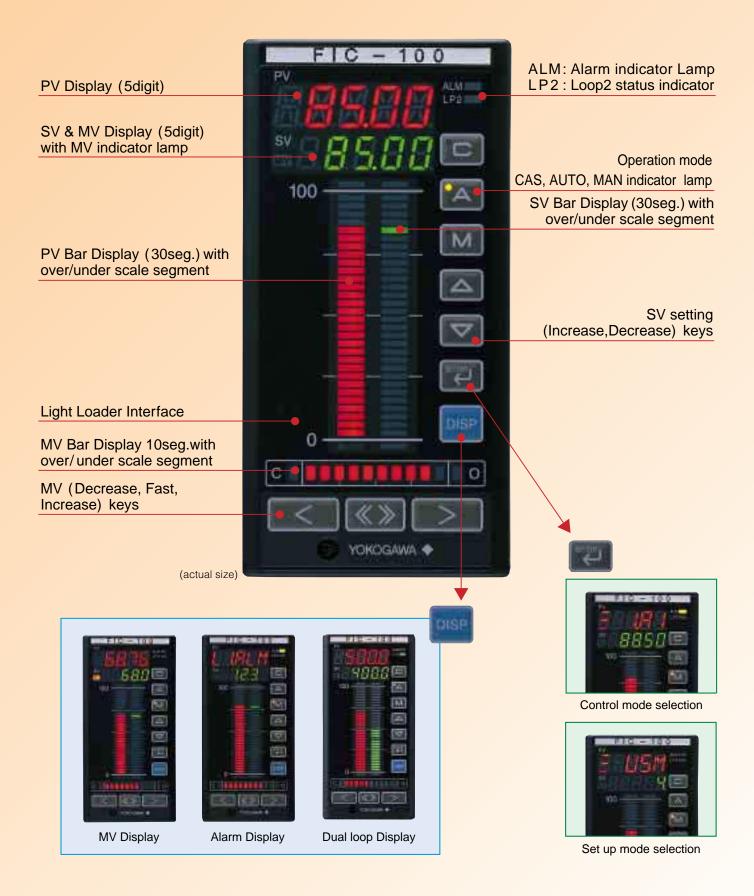
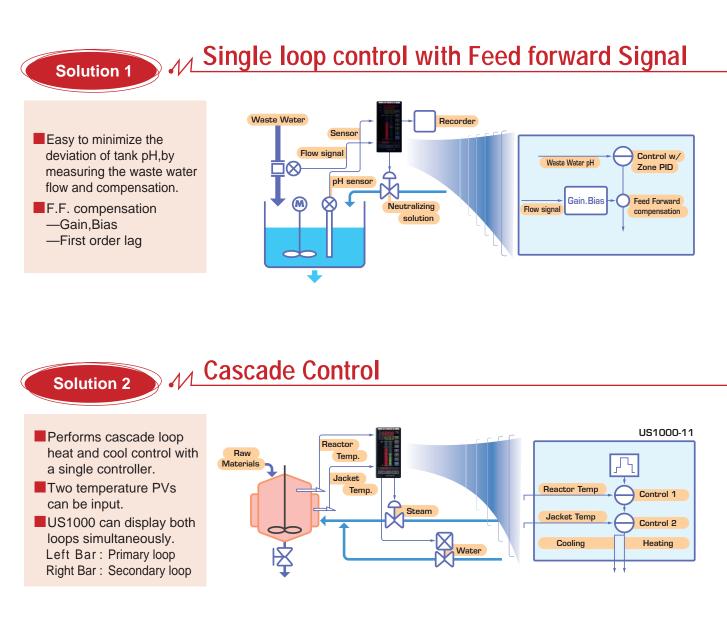
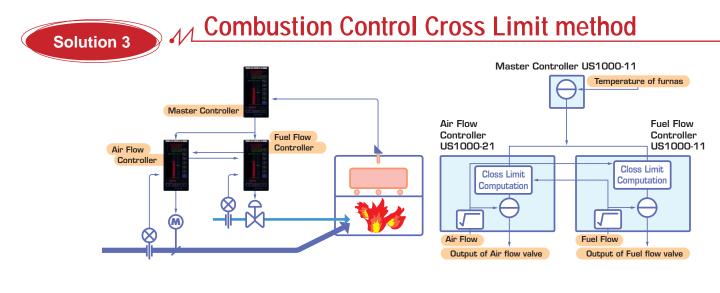


Easy-to-see Front Panel



Cover a wide range of applications!





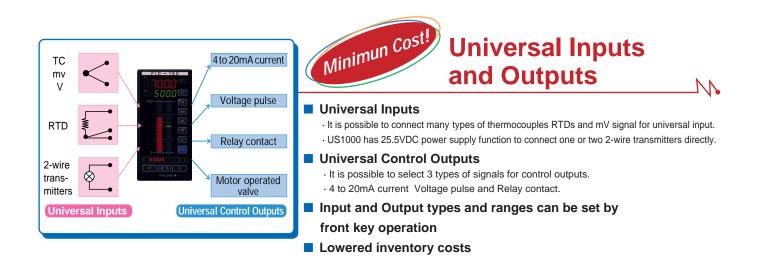
Reduce the Total instrumentation cost!

The US1000 Digital Indicating Controller has bright LED bar displays, and a variety of control and computation functions.

Operations and setting changes can be easily carried out using the front panel keys.

It's provides you NOT ONLY ADVANCED CONTROL FUNCTIONS, BUT LOW COST!







IP65 Dust and Water Protection

The front of US1000 has dust and water protection(in compliance with IP65). Dust &Water protection are effective only for installing single unit. IP code : IEC529 Degrees of protection provided by enclosures



Suitable for wide ranges of process control!

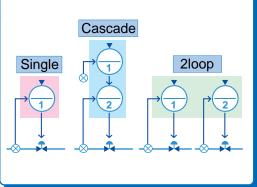
Control Computation and MV Signals

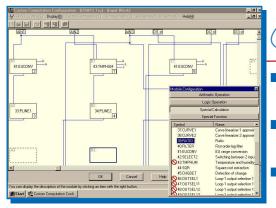
Wide Application! Cont and I

Continuous PID Current 4 to 20mA Time proportional Pulse ON/OFF control Relay Heat/Cool PID control Combination of Current and Relay. Position Proportional PID Relay Dir. COM-Rev.

PID control Functions

PID control Zone PID (Non-linear PID) PID with Output Tracking PID with Feed Forward Signal





Easy Configuration! Create a Custom Computation Function

- Design how input and output computation is to be changed and what computation modules are to be connected.
- Create a custom computation function with Model LL1200 Windows-Based Custom Computation Building Tool.
 - Write custom computation data to US1000 and confirm the functions.

Open Communication! Communication with a PC or PLC

US1000 can communicate with a

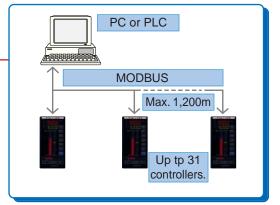
PC or PLC by MODBUS communication Protocol.

MODBUS

RTU (Binary) mode, ASCII mode MODBUS is very popular in US and European countries.

PC-Link

Can be used with Yokogawa Green series controllers.



Model and I/O Signals

	Model	Suffix Codes	Description	Analog Input		LPS	MV		RET	Contact	
				Universal	1-5V or 0-10Vdc	24Vdc	Current or Pulse	Relay	1-5V or 0-5Vdc	IN	OUT
	US1000	-00	Basic type	1	1	1	1	0	1	2	3
		-11	Enhanced type*	2	1	2	2	2	1	7	7
		-21	Enhanced model* with Position Propo. PID	2	1+1**	2	1	1 set	1	7	7
	Option	/A10	RS485 communication								

Note : * Enhanced type has Custom Computation Function. ** US1000-21 has one voltage input and one Slide wire input for Valve position feedback.

LPS : Loop power supply for transmitter. RET : Retransmission Output for other controller or recorder.

Specifications

opeemeations				
Control functions	Single-loop control, Cascade control, Dual-loop control			
Control Computational functions	Time proportional PID, continuous PID, ON/OFF control, heating/cooling, and position proportional PID computations, etc. Auto-tuning SUPER (An overshoot suppressing) function			
Other functions				
Output Points	Current, Voltage, Replay, Loop power supply for transmitter			
Signal Computation	Bias, Filter, PV tracking, Square root extraction, Ten-segment linearizer, etc.			
Custom Computation	58 Sorts			
Alarm functions	29 Sorts (high/low, deviation, etc.)			
Control Period	50,100ms 200,500ms (with custom computation)			
Communication Functions	RS485 (Optional code:/A10)			
Communication Protocol	PC-link communication, MODBUS			
Communication distance, Number of connectable units	Maximum of 1200m, Maximum of 31 units			
Terminal assignment	M 3.5 screws			
Power supply	100V to 240VAC ±10%, 50/60Hz			
Ambient Temperature Ambient humidity	0 to 50°C (40°C or less for close side-by-side mounting) 5 to 95% (no condensation)			

Model and Specification codes

Model	Suffix codes	Option codes	Description		
	-00		Basic type		
US1000	-11		Enhanced type (with custom computation)		
	-21		Position proportional type (with custom computation)		
		/A10	RS-485 communication		
Accessories:			Tag, unit, and numeral labels Operation manual		

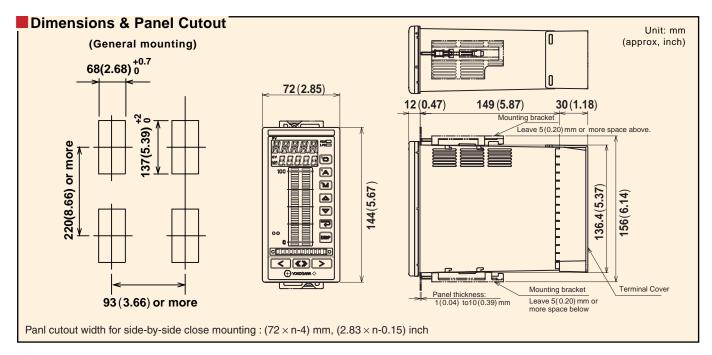
Model	Suffix codes	Option codes	Description
			PC-based Parameters Setting Tool
LL1100	-U10		Model for use with IBM PC/AT Compatible machine (Common to English and Japanese version) USB connection

Model	Suffix codes	Option codes	Description		
			PC-based Custom Computation Building Tool*		
LL1200			Model for use with IBM PC/AT Compatible machine (Common to English and Japanese version) USB connection		

*The LL1200 PC-Based Custom Computation Building Tool includes the same parameter setting function as the LL1100 PC-Based Parameters Setting Tool.

Items to be Specified at Ordering

•Model and suffix codes, option codes





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