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EN 6000B Series

Micro-proccessor Based Hi-tech Process Controllers & Process Scanners

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EN 6000B1 - Series is PID Controller available in standard & profile PID Controllers Programmable : 8 Patterns 16 Step (128 Segment Programmable control curve) Standard & Profile Programmable, motorised valve (Position proportion type) with up to 3 Input signal & 2 control output / 4 Alarm with optional communication : RS232 / RS485 / MODBUS

EN 6000B3 - Series is Micro-processor based panel meter in single & Dual Loop, Dual or Three Display Universal input, upto 6 Alarm or 4 Alarm + 2 Re-transmission Output, optional Arithmetic function (Add, deduct, Average, multiply, Div. etc.)

EN 6000B4 - Series is Micro-processor based Servo Controller with current output, current output + Standby, Positive / Negative Rotation, Positive / Negative Rotation + Standby Current Re-transmission, optional Communication : RS232 / RS485

EN 6000B5 - Series is Micro-processor based Flow & Thermal Capacity Accumulator is available with Standard Flow Capacity Accumulator with or without compensation (1 or 3 Channel) Superheated Steam flow & thermal capacity accumulator & Saturated Steam flow & thermal capacity Accumulator with Frequency Signal Input, 2 output & 2 Alarm with optional Serial Printer Interface / RS232 / RS485/ Current Re-transmission etc.

EN 6000B6 - Series is Micro-processor based Universal Input Temperature Scanner available in 8 Channel & 16 Channel. Optional: 2 common High and Low Alarm, Individual Alarm High & Low for each channel by external PCB Card. Current Re-transmission of 1 channel Programmable, Serial Printer Interface, RS485 / RS232 communication.

★ PLEASE SEE ORDERING INFORMATION

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EN-6000B1 Digital Controller/Dual-loop

Digital Control

EN-6000B1															DESCRIPTION
MODEL	EN-6000B1	1													Standard type (fixed value control type)
	EN-6000B1	2													Position-proportion type (positive/negative rotation of motor control type)
	EN-6000B1	3													Programmable standard type (8 Profile of16 segment each, programmable control curve)
	EN-6000B1	4													Programmable Position-proportion type (8 Profile of16 segment each, programmable control curve)
	EN-6000B1	5													Heat / cool control type (fixed value control type)
	EN-6000B1	6													Heat / cool control type (8 Profile of16 segment each, programmable control curve)
Overall dimensions (W x H) (mm x mm)			1												48 x 48
			2												72 x 72
			3												96 x 96
			4												48 x 96
			5												96 x 48
			6												160 x 80
			7												80 x 160
			8												48 x 96 (3 LED)
Input 2 (not available for 48 x 48 Size)				0											NONE
				1											0 ~ 20mA input
				2											0 ~ 10mA input
				3											4 ~ 20mA input
				4											0 ~ 5VDC input
				5											1 ~ 5VDC input
				6											0 ~10VDC input
				9											Custom
Input 3 (not available for 48 x 48 Size)					0										NONE
					1										0 ~ 20mA input
					2										0 ~ 10mA input
					3										4 ~ 20mA input
					4										0 ~ 5VDC input
					5										1 ~ 5VDC input
					6										0 ~10VDC input
					7										Resistance input (100Ω ~ 3KΩ)
					9										Custom
Output 1						0									NONE
						1									Relay (1A or 3A to be specify - Resistance load)
						2									Solid state relay (SSR) Driver (13V±VDC, Max 30mA)
						3									Zero - crossing 1-phase Silicon-controlled rectifier (SCR)
						4									Zero - crossing 3 - phase Silicon-controlled rectifier (SCR)
						5									Phase control 1 - phase Silicon-controlled rectifier (SCR)
						6									Phase control 3 - phase Silicon-controlled rectifier (SCR)
						7									Linear current output (Programmable 0~10mA, 4~20mA, 0~20mA DC)
						8									Electrically self-isolated linear current output (Programmable 0~10mA, 4~20mA, 0~20mA DC)
						9									Custom

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EN-6000B1 Digital Controller/Dual-loop

Digital Control

EN-6000B1		DESCRIPTION
Output 2/Alarm 3	0	NONE
	1	Relay (1A or 3A to be specify-Resistance load)
	2	Solid state relay (SSR) Driver (13V±2VDC, Max 30mA)
	3	Zero - crossing for 1-phase Silicon-controlled rectifier (SCR)
	4	Linear current output (Programmable 0~10mA, 4~20mA, 0~20mA DC)
	5	Electrically self-isolated linear current output (Programmable 0~10mA, 4~20mA, 0~20mA DC)
	9	Custom
Alarm 1 (either of AL1 and OP2 available for 48 x 48 size option)	0	NONE
	1	Relay (1A or 3A to be specify-Resistance load)
	2	Solid state relay (SSR) Driver (13V±2VDC, Max 30mA)
	3	Isolated 24V DC / 30mA power output
	9	Custom
Alarm 2 (either of AL2 and COMM available for 48 x 48 and 72 x 72 dimensions option)	0	NONE
	1	Relay (1A or 3A to be specify-Resistance load)
	2	Solid state relay (SSR) Driver (13V±2VDC, Max 30mA)
	3	Isolated 24V DC / 30mA power output
	9	Custom
Auxiliary / Alarm 4 (not available for 48 x 48 and 72 x 72 dimensions option)	0	NONE
	1	Relay (1A or 3A to be specify-Resistance load)
	2	Solid state relay (SSR) Driver (13V±2VDC, Max 30mA)
	3	Isolated 24V DC / 30mA power output
	4	A/M state output
	5	A/M control input
	9	Custom
Communication (either of AL2 and COMM available for 48 x48 and 72 x 72 dimensions option)	0	NONE
	1	Isolated RS485
	2	Isolated RS232
	3	Current re-transmission output (programmable 0 ~ 10mA, 4 ~ 20mA, 0~20mA DC)
	4	Electrically self - isolated current re-transmission output (programmable 0~10mA, 4~20mA, 0~20mA DC)
	5	Isolated 24V DC / 30mA power output
	9	Custom
Extended I/O	0	NONE
	1	Yes
Power Supply	1	100 ~ 240VAC (-15% + 10% 50/60Hz)
	2	24VDC (-15% + 25%)
	9	Custom

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EN6000B3 - Panel Meters

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MODEL											DESCRIPTION
	EN-6000B3	☐	☐	☐	☐	☐	☐	☐	☐	☐	
	EN-6000B3	1									Single loop
	EN-6000B3	2									Double loop
Overall dimensions (W x H) (mm x mm)			1								48 x 48
			2								72 x 72
			3								96 x 96
			4								48 x 96
			5								96 x 48
			6								160 x 80
			7								80 x 160
			8								48 x 96 (3 - LED display)
Alarm 1				0							NONE
				1							Relay (1A or 3A to be specify-Resistance load)
				2							Solid state relay (SSR) driver (13V±2VDC, Max 30mA)
				3							Isolated 24V DC / 30mA power output
				9							Custom
Alarm 2					0						NONE
					1						Relay (1A or 3A to be specify-Resistance load)
					2						Solid state relay (SSR) driver (13V±2VDC, Max 30mA)
					3						Isolated 24V DC / 30mA power output
					9						Custom
Alarm 3 / Retransmission1						0					NONE
						1					Relay (1A or 3A to be specify-Resistance load)
						2					Solid state relay SSR
						3					Current retransmission output (programmable 0~10mA, 4~20mA, 0~20mA DC)
						4					Self Isolated Current re-transmission output (programmable 0~10mA, 4~20mA, 0~20mA DC)
						9					Custom
Alarm 4 / Frequency signal input (48x48 Size AL1 or AL4 choose one)							0				NONE
							1				Relay (1A or 3A to be specify-Resistance load)
							2				Solid state relay (SSR) driver (13V±2VDC, 30mA max)
							3				Frequency signal input 0 ~ 5KHz
							9				Custom
Alarm 5 (Not available for 48 x 48, 72 x 72 Size)								0			NONE
								1			Relay (1A or 3A to be specify-Resistance load)
								2			Solid state relay (SSR) driver (13V±2VDC, 30mA max)
								3			Isolated 24V DC / 30mA power output
Alarm 6/ Communication / Retransmission 2 (48 x 48,72 x 72 dimensions, AL1 or AL4 choose one)									0		NONE
									1		Relay (1A or 3A to be specify-Resistance load)
									2		Solid state relay (SSR) driver (13V±2VDC, 30mA max)
									3		Isolated RS485
									4		Isolated RS232
									5		Serial printer interface
									6		Current retransmission output (programmable 0~10mA, 4~20mA, 0~20mA DC)
									7		Self-Isolated current retransmission output (programmable 0~10mA, 4~20mA, 0~20mA DC)
									8		Isolated 24V DC / 30mA power output
									9		Custom
Power supply										1	100 ~ 240V AC (-15% + 10%) 50/60Hz
										2	24V DC (-15% + 25%)
										9	Custom

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EN-6000B4 - Servo Manual Operated Instruments

EN-6000B4										DESCRIPTION
MODEL	EN-6000B4	1								Current output type of manual operated instruments
	EN-6000B4	2								Current output type of manual operated instruments + Standby operated instruments
	EN-6000B4	3								Motor positive / negative rotation control type of manual operated instruments
	EN-6000B4	4								Motor positive / negative rotation control type of manual operated instruments+Standby operated instruments
Overall dimensions (W x H) (mm x mm)			2							72 x 72
			3							96 x 96
			4							48 x 96
			5							96 x 48
			6							160 x 80
			7							80 x 160
			8							48 x 96 (3 - LED)
Output (choose output after choose types)	Current output type			1						Linear current (Programmable 0~10mA, 4~20mA, 20~mA DC)
				2						Self - Isolated linear current output (Programmable 0~10mA, 4~20mA, 20~mA DC)
				9						Custom
	Positive/ Negative rotation control type			1						Relay (1A or 3A to be specify-Resistance load)
				2						Solid state relay (SSR) Driver (13V±2VDC, Max 30mA)
				9						Custom
Alarm 1					0					NONE
					1					Relay (1A or 3A to be specify-Resistance load)
					2					Solid state relay (SSR) Driver (13V±2VDC, Max 30mA)
					3					Input signal to control valve position (+)
					9					Custom
Alarm 2						0				NONE
						1				Relay (1A or 3A to be specify-Resistance load)
						2				Solid state relay (SSR) Driver (13V±2VDC, Max 30mA)
						3				Input signal to control valve position (+)
						9				Custom
Auxiliary interface							0			NONE
							1			A/M state output
							9			Custom
Communication								0		NONE
								1		Isolated RS232
								2		Isolated RS485
								3		Current re-transmission output (programmable 0~10mA, 4~20mA, 0~20mA DC)
								4		Electrically isolated current transmit output 0~10mA, 4~20mA, 0~20mA
								9		Custom
Power Supply									1	100 ~ 240VAC (- 15% + 10%) 50 / 60 Hz
									2	24VDC (- 15% + 25%)
									9	Custom

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EN6000B5-Flow and Thermal Capacity Accumulated Instruments

											DESCRIPTION
MODEL	EN-6000B5	☐	☐	☐	☐	☐	☐	☐	☐	☐	
	EN-6000B5	1									Flow capacity accumulated instruments without compensation (Single channel)
	EN-6000B5	2									Flow capacity accumulated instruments with compensation (Three channel)
	EN-6000B5	3									Superheated steam flow and thermal capacity accumulated instruments
	EN-6000B5	4									Saturated steam flow and thermal capacity accumulated instruments
Overall dimensions (W x H) (mm x mm)			3								96 x 96
			6								160 x 80
			7								80 x 160
Frequency signal input (to flow channel)				0							NONE
				1							Frequency passive signal (0 ~ **5KHz**)
				2							Frequency active signal (0 ~ **5KHz**)
				9							Custom
Alarm -1					0						NONE
					1						Relay (1A or 3A to be specify-Resistance load)
					2						Solid state relay (SSR) driver (13V±2VDC, Max 30mA)
					3						Isolated 24V / 30mA power output
					9						Custom
Alarm - 2						0					NONE
						1					Relay (1A or 3A to be specify-Resistance load)
						2					Solid state relay (SSR) driver (13V±2VDC, Max 30mA)
						3					Isolated 24V / 30mA power output
						9					Custom
Output - 1							0				NONE
							1				External ON/OFF signal input to Stop/Run accumulating (ON means Stop)
							2				Current re-transmission output (programmable 0~10mA, 4~20mA, 0~20mA DC)
							3				Self - isolated current re-transmission output (programmable 0~10mA, 4~20mA, 0~20mA DC)
							9				Custom
Output - 2								0			NONE
								1			Isolated 24V / 30mA power output
								2			External ON/OFF signal input to Clear the accumulated value (ON means Clear)
								9			Custom
Print / Communication / Current transmit output 2									0		NONE
									1		Serial printer interface
									2		Isolated 24V / 30mA power output
									3		Isolated RS232
									4		Isolated RS485
									5		Current re-transmission output (programmable 0~10mA, 4~20mA, 0~20mA DC)
									6		Self-isolated current retransmission output (programmable 0~10mA, 4~20mA, 0~20mA DC)
									9		Custom
Power supply										1	100~240V AC (-15%+10%) 50/60Hz
										2	24V DC (-15%+25%)
										9	Custom

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EN6000B6-Multi-loop Measuring Instruments

EN-6000B6							DESCRIPTION
MODEL	1						8 Channels measurement without alarm
	2						8 Channels measurement with common alarm
	3						8 Channels measurement with independent alarm
	4						16 Channels measurement without alarm
	5						16 Channels measurement with common alarm
	6						16 Channels measurement with independent alarm
Overall dimensions (W x H) (mm x mm) (16 Channels instruments just have 3, 6, 7)		3					96 x 96
		4					48 x 96
		5					96 x 48
		6					160 x 80
		7					80 x 160
Alarm 1			0				NONE
			1				Relay (1A or 3A to be specify-Resistance load)
			2				Solid state relay (SSR) driver (13V±2VDC, Max 30mA)
			9				Custom
Alarm 2				0			NONE
				1			Relay (1A or 3A to be specify-Resistance load)
				2			Solid state relay (SSR) driver (13V±2VDC, Max 30mA)
				9			Custom
Communication					0		NONE
					1		Programable Current re-transmission output (any one channel)
					2		Self-isolated current re-transmission output (any one channel)
					3		Isolated RS485
					4		Serial printer interface
					5		Isolated 24V / 30mA power output
					9		Custom
Power supply						1	100 ~ 240V AC (-15% + 10%) 50 / 60 Hz
						2	24V DC (-15% + 25%)
						9	Custom
PCB Assembly Scanner Alarm Card						A	8 Channels
						B	16 Channels