

The Next Generation in Reliable
Controllers

NexSys[™] Boiler Control System



The **NexSys**TM control system is the latest in a long line of reliable, easy to use controllers from Lakewood Instruments. The **NexSys**TM control system uses the latest in microprocessor technology with a 5.7" **Color Touch Screen** interface for a high level of application flexibility.

All features, parameters, settings, and functional requirements to operate, program, and monitor the **NexSys**TM control system are accessible from the touch screen and DO NOT require the use of an external input, PC or device to operate or access. The **NexSys**TM control system even includes On-Board Help Screens with wiring, programming, and maintenance instructions.

The NexSysTM control system comes standard with the following system interfaces and DMX outputs: LON EIA 709 FTT10, BACnet IP, and MODbus TCP. The unit comes from the factory ready to integrate readings into a BAS, including: The state of any installed relay (On/Off), Water meter readings, Conductivity readings, Additional sensor readings (ph, ORP), sensor alarms, Additional 4-20mA input readings, Flow condition, and other digital inputs.

The **NexSys**[™] control system comes standard with Ethernet capability through a browser (HTML5) interface that allows 100% access to all features and control parameters of the controller.



The **NexSys**TM control system has an astounding array of built-in features such as:

- LonWorks, MODbus, and BACnet communications interface
- Ethernet capability through an HTML interface
- The capability to send E-service reports to a subscribed service
- The ability to display operating values with time and date stamps on color coded graphs with zoom and scroll features
- Up to four boiler conductivity sensor inputs and two pH sensor inputs
- Trace chemistry capable with user definable correction factors as part of the programming
- Two water meter inputs with expansion capability to four
- Enclosure is NEMA 4X rated
- Two flow switch inputs configurable to any relay output with expansion capability to four
- Ability to add up to eight 4-20mA input readings
- Ability to add four digital inputs
- Ability to mount every sensor/input up to 400 meters away from the controller via 4-wire twisted pair
- Ability to control the blowdown of four boilers at the same time
- Six relay outputs expandable to ten relay outputs for user configurable operations such as:

Blowdown Valve Control by Sample/Cycle, Continuous Sample, and Sample Hold

Feed by Percent of Blowdown Time

Feed by Setpoint with Percent of Time Feature as Part of Spaced Feed

Trace Chemistry Control

By Makeup Totalized Gallons

By Blowdown Totalized Gallons

By Percent On-Time

By Scheduled Feed by Day and Time

As an Alarm Relay by User Selectable Alarms

On-board Help Screens with wiring, programming, and maintenance instructions

Specifications

Touch Screen Interface: 5.7" diagonal viewing area Display size: 115X86 mm Pixel: 320X240

Color: TFT 65536
Backlight: LED or CCFL
Power: 120/240 VAC 50/60 Hz

Relay ratings:

120VAC 3A per relay 15A total

Enclosure: NEMA 4X



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	Price	Туре	1-4 / A, B or XX		1-4 / A, B or XX		1-4 / A, B or XX		1-4 or X	T, H or X	I, R or	S, L or		S, D or X	S, D or X		4, 8 or X		S,Lor X		XX
NexSys™ Boiler System Config		NXB		-		-		-					-			-		-		-	
Boiler Systems																					
Boiler Probe Kit (1-4/ A = STD, B = HD) (Max 4 Cond sensors per system ind Condensate)																					
Sample Cycle Plumbing (1-4/ A = .50, B = .75)													П			Ш					
Continuous Sample Plumbing (1-4/ A = .50, B = .75)													П			Ш					
Motorized Ball Valve (1-4/ A = .50, B = .75)							3						П			Ш		П			
Condensate Probe Kit (INCLUDES k.1, inline, 10 inch sensor) (Max 4 Cond sensors per system incl Boiler)																					
Condensate Cell Constant (T = 0.10 or H = 0.01)													П			Ш		П			
Condensate Fitting (I = Insert or R = Retract)											-		П			Ш					
Condesate Sensor Length (S = 10" or L = 18")												i (+									
Relays (S = 6 or D = 10)																					
Water Meters Inputs (S = 2 D = 4)																					
4-20MA Input (4 or 8)																					
4-20mA Output (4 or 8)																					
2nd Remote Display (S = 5.7" L = 15")																		1			
Custom Designator (-XX)																					4

X = No Option Needed

Pricing is for each.

All items are code W except 2nd remote display which is a code D

EXAMPLE:

A system that would include 1 boiler using sample/cycle control with 1/2" plumbing and motorized ball valve, and 1

\$6,497 NXB 1A - 1A XX - 1A - 1 T I S - D S - X X - X - X - X 53,068 \$836 \$190 0 \$990 \$1,413 0 0 0 0 0 0 0 0 0

condensate system with conductivity between 10-100uS using a 10" insertion sensor, would look like: