

2021/2022

COCHRANE
SUPPLY

BURNER BOOK



CONTROLS FOR COMMERCIAL & INDUSTRIAL BURNER BOILER APPLICATIONS



SCAN ME

www.cochranesupply.com

TABLE OF CONTENTS

Burner Book Sales Event!	pg. 2
Combustion Controls Training	pg. 3
Honeywell Flame Safeguard	pg. 4-6
Honeywell Combustion Controls	pg. 7
Siemens Flame Safeguard	pg. 8
Siemens Combustion Controls	pg. 9
Fireye Flame Safeguard	pg. 10-12
Fireye Combustion Controls	pg. 13-14
VFD, Boiler & Pump Controls	pg. 14-15
Gas Train Products	pg. 16-21
Combustion Analysis	pg. 22
Cochrane Supply Line Card	pg. 23
Cochrane Supply Locations	pg. 24



SHOP IN-STORE, EARN REWARDS!

Earn a variety of prizes when you purchase Flame Safeguard products at any Cochrane Supply counter September 13th, 2021 through February 28th, 2022!* For counter orders:

- **Over \$500**, get a \$5 McDonalds Gift Card!
- **Over \$1,000**, choose our signature Cochrane Supply camo ball cap or a fleece beanie!
- **Over \$1,500**, get a Heat-a-Seat cushion!
- **Over \$2,000**, get a rechargeable hand warmer!



**For the order to qualify, it must contain a Flame Safeguard Product and be purchased in-store. Example of products that qualify: FSG Programmer, FSG Relay, Gas Valves, Pressure Switches, Amp Cards, Flame Sensors. Some prizes have limited quantities available and are while supplies last.*

Walk into a boiler room and present yourself as a **BurnerPRO** professional!



Enroll in our Combustion Controls & Analysis Classes Now!

Cochrane Tech Services provides comprehensive, world-class training programs to provide you with the knowledge you need to succeed. Visit cochranetechservices.com to register for a combustion class near you. Training questions? Email training@cochranetechservices.com.

COMBUSTION THEORY ANALYSIS | \$85 per student | 4:30pm-7:30pm EST

This class is geared towards service technicians who test and tune burners for combustion efficiency. Topics include: the combustion process, why it's important to measure, how contractors can make money using an analyzer, how to use an analyzer and more!

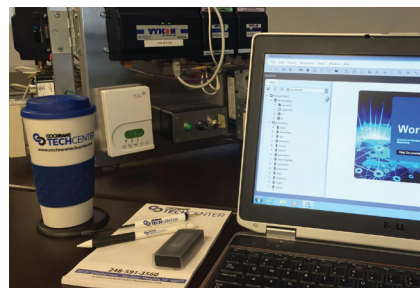
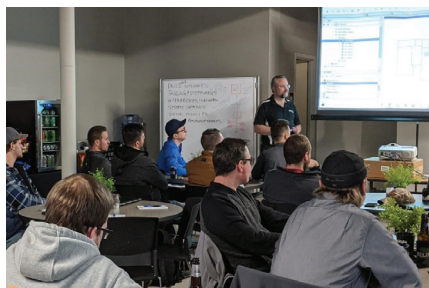
- September 14, 2021 | Cochrane Supply - Cleveland, OH
- September 15, 2021 | Cochrane Supply - Toledo, OH
- October 13, 2021 | Cochrane Tech Center - Madison Heights, MI
- October 13, 2021 | Builders Exchange of KY - Louisville, KY
- October 14, 2021 | Cochrane Supply - Grand Rapids, MI
- October 14, 2021 | Cochrane Supply - Indianapolis, IN



FLAME SAFEGUARD SEMINAR | \$85 per student | 4:30pm-7:30pm EST

This class covers applications and troubleshooting. Topics will include: Flame Sensors, Primary Controls and Programming Controls.

- October 5, 2021 | Cochrane Tech Center - Madison Heights, MI
- October 12, 2021 | Cochrane Supply - Grand Rapids, MI
- October 19, 2021 | Cochrane Supply - Toledo, OH
- October 26, 2021 | Cochrane Supply - Cleveland, OH
- November 9, 2021 | Builders Exchange of KY - Louisville, KY
- November 16, 2021 | Cochrane Supply - Indianapolis, IN



PRIMARY FSG RELAYS

RM7890 Primary Controls

Replaces RA890F,G,H, & Requires Q7800 Subbase & R78 Amplifiers

- RM7890A1015** Automatic Primary Relay
- RM7890B1014** Automatic Primary Relay, Shutter Drive
- RM7890B1048** Enhanced Primary with VPS**

RM7895 Primary Controls

Replaces R7795A,B—R4795A,D & Requires Q7800 Subbase, R78A Amplifiers & ST Purge Cards

- RM7895A1014** Intermittent Primary Relay
- RM7895B1013** Intermittent Primary Relay with Air Flow Switch Check
- RM7895C1012** Interrupted Primary Relay
- RM7898A1000** Enhanced Primary with VPS**

RM7838A and B Semi-Automatic Primary Controls

Replaces R4138, Requires Q7800 Subbase, R78 Amplifiers & ST Purge Cards

- RM7838A1014** Semi-Automatic Primary Relay with Display
- RM7838B1013** Enhanced Primary Relay with Display



PROGRAMMER FSG RELAYS

RM7840 Programmer FSG Relay

Replaces R4140 & Requires Q7800 Subbase, R78 Amplifiers, ST Purge Cards

- RM7840E1016** Relay Module, 4-Wire Modulation, Proven High/Low Fire, ESP*
- RM7840G1014** Relay Module, 4-Wire Modulation, Proven Low Fire
- RM7840L1018** Relay Module, 4-Wire Modulation, Proven High/Low Fire
- RM7840M1017** Relay Module, On/Off, Proven Low Fire
- RM7840L1075** Enhanced Programmer with Purge & VPS**

RM7800 Programmer FSG Relay

Replaces BC7000 (includes keypad) & Requires Q7800 Subbase, R78 Amplifiers, ST Purge Cards

- RM7800E1010** Relay Module with Keypad, 4-Wire Modulation, Proven High/Low Fire, ESP*
- RM7800G1018** Relay Module with Keypad, 4-Wire Modulation, Proven Low Fire
- RM7800L1012** Relay Module with Keypad, 4-Wire Modulation, Proven High/Low Fire
- RM7800M1011** Relay Module with Keypad, On/Off, Proven High/Low Fire
- RM7800L1087** Enhanced Programmer with Keypad & VPS**

*ESP = Energy Savings Prepurge **VPS = Valve Proving System



Honeywell



S7800A1142 Enhanced Keyboard

Allows for programming the VPS and post purge as well as configuring of S7830 expanded annunciator terminals to match user system drawings, providing an aid for troubleshooting.



S7800A2142 Display Module

Allows for programming the VPS and post purge. Provides current system status and first-out annunciation and system diagnosis using a five-row by 64-column readout. The KDM is part of the 7800 series of microprocessor-based burner controls for gas/oil/coal or combination fuel single burner applications.



S7810M1003 ControlBus Module-MODBUS

Operates as ModBus RTU slave device with ability to remotely mount the S7800 Keyboard Display Module. It installs directly on the front of 7800 Series Relay Modules and provides ModBus communications bus interface with remote reset option.



FREE FSG RELAY TESTING
by professionally-trained staff at
any Cochrane Supply store counter!

FLAME SIGNAL AMPLIFIERS



R7847A1025	Green, Rectification, 0.8 to 1 Second Response Time
R7847A1033	Green, Rectification, 2 to 3 Second Response Time
R7847B1023	Green, Rectification, Dynamic AMPLI-CHECK™ 0.8 to 1 Second Response Time
R7847B1031	Green, Rectification, Dynamic AMPLI-CHECK™ 2 to 3 Second Response Time
R7847C1005	Purple, Ultraviolet, use with Purple-Peeper, Dynamic AMPLI-CHECK™ 2 to 3 Second Response Time
R7848A1008	Red, Infrared, 2 to 3 Second Response Time
R7849A1015	Purple, Ultraviolet, 0.8 to 1.0 Second Response Time
R7849A1023	Purple, Ultraviolet, use with Mini-Peeper, 2 to 3 Second Response Time
R7849B1013	Purple, Ultraviolet, use with Mini-Peeper, Dynamic AMPLI-CHECK™ 0.8 to 1 Second Response Time
R7849B1021	Purple, Ultraviolet, use with Mini-Peeper, 2 to 3 Second Response Time, Circuitry Self-Test
R7851B1000	White, Ultraviolet, Dynamic AMPLI-CHECK™ 2 to 3 Second Response Time
R7852A1001	Red /White, Infrared, 2 to 3 Second Response Time
R7861A1026	Purple, Ultraviolet, 2 to 3 Second Response Time Used With C7061 Detector
R7886A1034	Blue, Ultraviolet, Dynamic SELF-CHECK, 0.8 to 1 Second Response Time, Adjustable Sensitivity
R7886A1001	Blue, Ultraviolet, Dynamic SELF-CHECK, 2 to 4 Second Response Time, Adjustable Sensitivity

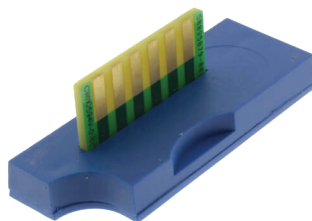
PLUG-IN PURGE TIMER CARD



Q7800A1005	Universal Wiring Subbase, Panel Mounting
Q7800B1003	Universal Wiring Subbase, Wall Mounting

Use with RM7800, RM7840, RM7895, RM7838 Relay Modules

Part Number	Prepurge Timing
ST7800A1005	2 seconds
ST7800A1013	7 seconds
ST7800A1021	10 seconds
ST7800A1039	30 seconds
ST7800A1047	40 seconds
ST7800A1054	60 seconds
ST7800A1062	90 seconds
ST7800A1070	2.5 minutes
ST7800A1088	4.0 minutes
ST7800A1096	6.0 minutes
ST7800A1104	9.0 minutes
ST7800A1112	12.0 minutes
ST7800A1120	15.0 minutes
ST7800A1138	22.0 minutes
ST7800A1146	30.0 minutes



PILOT ASSEMBLIES

Rectification flame sensing can be used with Honeywell and Fireye amplifiers.

Part Number	Description	Application
FRS4-12 FRS4-6	Flame Rod, 1/4" NPT Mount 12" Rod Flame Rod, 1/4" NPT Mount 6" Rod	Standard Flame Rod, cut to length, heat before bending
Q179A1001 Q179A1035 Q179A1050 Q179A1092	I Tip Style 45° RH Tip Style T Tip Style 45° T Tip Style	Flame Rod & Gas Pilot, for intermittent or interrupted ignition
Q179B1042	T Tip Style	Standing Pilot
Q179C1009 Q179C1025	End, Dual Wing, Rear Mount End, Single Wing, Rear Mount	Flame Rod & Gas Pilot, for intermittent or interrupted ignition
Q179D1008	End, Dual Wing, Rear Mount	Standing Pilot

IGNITION TRANSFORMERS

Part Number	Description
A06-SA6	120 VAC Primary, 6000 VAC Secondary, 175 VA, 60 Hz, 1 Phase
A10-LA2	120 VAC Primary, 10000 VAC Secondary, 250 VA, 60 Hz
Q624A1014	120 VAC, 50/60 Hz
Q652B1006	120 VAC, 60 Hz
Q652B1014	220 VAC, 50/60 Hz

INFRARED FLAME SENSORS

Part Number	Description
C7915A1028	3/4" NPT Mount, 48" Lead Wire with Lead Sulfide Photocell, -20 to 125°



ULTRAVIOLET FLAME SENSORS

Part Number	Description
C7027A1023	MiniPeeper, 0 to 215°
C7027A1031	MiniPeeper, 1/2" Mount, 8' Lead Wire, -40 to 215°
C7027A1049	MiniPeeper, 1/2" Mount, 8' Lead Wire, 1/2" NPT Conduit, 0 to 215°
C7027A1064	MiniPeeper, 1/2" Mount, 24' Lead Wire, 1/2" NPT Conduit, -40 to 215°
C7027A1072	MiniPeeper, 1/2" Mount, 8' Lead Wire, 1/2" NPT Conduit, -40 to 215°
C7927A1016	MiniPeeper, 1/2" NPT Mount, 48" Lead Wire, -40 to +200°
C7035A1023	1" Mount, 6' Lead Wire, Replaceable UV Tube, 0 to 250°
C7012E1112	1" NPT Mount, Dynamic Self-Check, 120V
C7012E1146	3/4" NPT Mount, Dynamic Self-Check, 208V
C7012A1053	1" NPT Mount, Dynamic Self-Check, 120V, Low Temp, -40 to 175°
C7961E1014	1" NPT Mount, Dynamic Self-Check, 120V, Low Temp, -40 to 175°

C7961E1014



FREE TESTING on RM7800 Series 1000 & the OEM Series 2000 version controllers at Cochrane Supply counters!

sales@cochraneSupply.com

HONEYWELL SLATE - *Integrated Combustion Equipment Management!*

A single platform for almost any application. With the revolutionary integration of configurable safety and programmable logic, SLATE is easily customized for virtually any commercial or industrial combustion application. In less time, and with far less complexity. With SLATE, your team can engineer custom solutions for a variety of markets without going back to the manufacturer. Purchase only the modules your application requires and choose how to use them.

FEATURES:

- It's modular—buy only the modules you need and choose how to use them with simple wiring commands
- Provides 24 VDC or 24 to 240 VAC flame safeguard
- Dual fuel capability; DIN rail mountable
- Designed to mount inside electrical enclosure as part of a system
- Flexible programming tools help you develop and implement differentiating applications more quickly
- Load your custom application kit with a PC for faster duplication
- SLATEXTOOL: Complimentary add-on with product for AX license



powered by

niagara
framework®



Base Unit
R8001A1001

Burner Control
R8001B2001

UV Flame Amp
R8001S1071

Fuel Air Ratio
R8001C6001

Safety Limit
R8001L8001

Annunciator
R8001N7001

Digital I/O
R8001D4001

Analog I/O
R8001U3001

HONEYWELL SLATE COLOR DISPLAY - *10" Color LCD Display*



R8001K1010

The R8001K1010 SLATE 10" Color Touch Screen Display provides users with the ability to create vivid application displays using web technology. The screen is web enabled, and with the SLATE Web Editor tool, creating screens is simple and easy.

FEATURES:

- Display screens are web pages served from SLATE Base Module
- Integrated view of SLATE system
- Standard Honeywell pages for Burner Control, Fuel Air Ratio, Limit and Base Modules

FLAME SCANNERS

SIEMENS

QRA2(1) UV Scanner
QRA4U UV Scanner
QRA10 UV Scanner
QRA75 UV Scanner

U.V. side-viewing detector with flange and clamp used with LFL Burner Controls
QRA4U U.V. detector with NPSM thread conn. for LFL Burner Controls
U.V. detector with die cast aluminum housing normal sensor tube
U.V. self scanner for LMV



QRA2(1)



QRA4U

QRA75



QRA10

LME7 BURNER CONTROL



The burner control LME7 is a microprocessor-based unit with matching system components for the control and supervision of forced draft burners of medium to high capacity. Ease of installation, programming and commissioning are incorporated into a reliable, field proven control.

LFL FLAME SAFEGUARD



With an incomparable record for safety and reliability, the globally approved LFL Flame Safeguard continues to be one of the most widely used flame safeguards around the world. Siemens LFL burner controls provide burner sequencing and flame monitoring for the supervision of individual gas, oil, or dual fueled burners.

SQN7 CONTROL MOTOR



Designed to drive gas and air dampers for burners with small to medium capacities, the SQN7 Control Motor provides line voltage, floating control and optional feedback for low torque applications. Features include: line voltage floating or proportional control, optional feedback potentiometer, up to 22 in-lb torque, and an auxiliary switch.

LDU11 VALVE LEAK TEST SYSTEM



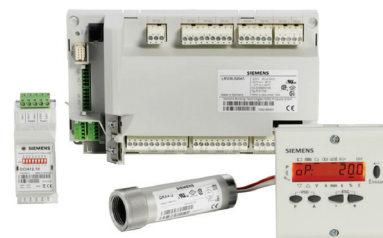
The Siemens LDU11 gas valve leak test control checks for leakage through the shutoff valves prior to burner start-up and/or immediately after burner shut-down. The cost-effective, easy to install LDU11 adds a substantial degree of safety to any combustion system.

SIEMENS LMV3

The LMV3 Linkageless Burner Management System sets an industry standard for cost-effective single or dual fuel burner controls—from easy installation, programming and commissioning to reliable, proven control. Effortless commissioning, simple programming, and easy installation allows for maximum ROI.

With the LMV3, Siemens forges new ground delivering a fully-integrated flame safeguard, linkageless system that is not only easy to install and use, but also provides improved burner performance and efficiency and ensures safe operation.

- Single and dual fuel versions
- Gas valve leak test on startup, shutdown, both or neither
- Proof of closure switch monitoring
- Programmable overlap of the pilot and main gas valves
- Programmable stops to pause startup sequence in: pre-purge, pre-ignition, pilot ignition, and main flame
- Adjustable purge timing up to 60 minutes



SIEMENS LMV5

The LMV5 Linkageless Burner Management System sets the standard high—from easy installation, programming and commissioning to reliable, proven control. With the LMV5, Siemens forges new ground delivering a fully-integrated system that is not only easy to install and use, but also provides improved burner performance and efficiency and ensures safe operation.

- Fuel to air ratio curve can easily be adjusted at any point in the firing rate
- 15 programmable points, with 4 independent positions including pre-purge, ignition, post-purge and standby
- User friendly menu system for fast programming, commissioning
- Worldwide approvals and technical support



RWF50 TEMPERATURE CONTROLLER

The RWF50 is used mainly for controlling the temperature or pressure in oil- or gas-fired heating plants. It is used either as a 3-position controller without angular positioning feedback or a continuous controller with analog output depending on the version. An external switch can be used to change to a 2-position controller for controlling 2-stage burners. The integrated thermostat function switches the burner on and off.



PRIMARY FSG RELAYS

Micro M Series

Replaces UVM, TFM, M Series II

Chassis

MEC120 VAC with Standard Plug-in Board

Programmer Modules

MEP100 Relight Operation, 10 Second, PTFI

MEP230 Selectable Purge, PTFI Timing, Recycle or Non-Recycle
Post Purge, Prove Air Open at Start

Amplifier Modules

MEUVI Ultraviolet, 0.8 Second Response Time

MEUV4 Ultraviolet, 3 Second Response Time

MERT1 Flame Rod, Photocell, 0.8 Second Response Time

MERT4 Flame Rod, Photocell, 3 Second Response Time

M-Series II

Replaces UVM & TFM

Chassis

MC120 120 VAC, Standard

MC120R 120 VAC with Remote Reset Capability

Programmer Modules

MP100 Relight Function

MP230 Selectable Recycle/Non-Recycle Function, Trial Flame
Ignition and Purge Timing

Amplifier Modules

MAUV1 Ultraviolet, 2-4 Second Response Time

MAUVIT Ultraviolet, 0.8 Second Response Time

MART1 Flame Rod, 2-4 Second Response Time

MARTIT Flame Rod, 0.8 Second Response Time

Subbases for Both Micro M and M-Series II

61-3060 Surface Mounting, Closed

61-5042 Cabinet Mounting, Open

Micro M Series



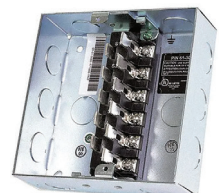
M Series II



MP100



61-3060



FREE FSG RELAY TESTING

by professionally-trained staff at
any Cochrane Supply store counter!

PRIMARY FSG RELAY CROSS-REFERENCE

MicroM Replacement from old M-Series and M-Series II

M-Series	M-Series II			MicroM Series		
Assembly	Chassis	Amplifier	Programmer	Chassis	Amplifier	Programmer
UVMID	MC120	MAUV1T	MP100	MEC120	MEUV1	MEP100
UVM1F	MC120	MAUV1	MP100	MEC120	MEUV4	MEP100
TFM1D	MC120	MART1T	MP100	MEC120	MERT1	MEP100
TFM1F	MC120	MART1	MP100	MEC120	MERT4	MEP100
UVM2	MC120	MAUV1	MP230	MEC120	MEUV1	MEP230
TFM2	MC120	MART1	MP230	MEC120	MERT4	MEP230
UVM3	MC120	MAUV1	MP230	MEC120	MEUV4	MEP230
TFM3	MC120	MART1	MP230	MEC120	MERT4	MEP230

PROGRAMMER FSG RELAYS

Flame Monitor[®] Control

Chassis

E110 Flame Monitor Control, Standard, w/Dust Cover & Screw
ED510 Display Module, LCD Display w/Keypad, 2 Line x 16 Characters, For Programmers and Primary Relays

E110



Programmer Modules

EP160 30 Second Purge, 10 & 15 Second Trial for Ignition, 4 Second Response Time, Non-Recycle, Modulation
EP260 30 Second Purge, 10 & 15 Second Trial for Ignition, 4 Second Response Time, Recycle, Modulation
EP380 30 Second Purge, 5 & 10 Second Trial for Ignition, 4 Second Response Time, Recycle, On-Off
EP390 90 Second Purge, 5 & 10 Second Trial for Ignition, 4 Second Response Time, Recycle, On-Off

ED510



Amplifier Modules

EUV1 Ultraviolet Amplifiers
EIR1 Infrared Amplifier (High Sensitivity)
ERT1 Flame Rod Amplifier



EIR1

EP160

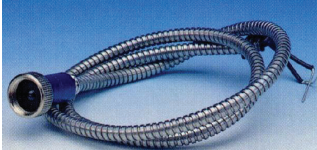


D & E Series Subbases

60-1386-2 Closed Base
60-1466-2 Open Base

FIREYE FLAME SCANNERS

UV1A6	UV Scanner, 1/2" NPT Connector, 6 ft. Cable
48PT2-9003	Infrared Scanner, 8', 90 Degree Head, D-Series, E-Series, MicroM
45UV5-1009	UV Self-Check Scanner, 1" NPT, 120 VAC Shutter; Use with 72DUVS4, 72DUVS1T, EUVS4, MicroM, FlameWorx II



UV1A6



48PT2

45UV5



FIREYE INTEGRATED SCANNERS

Simplicity 65UV5

The Fireye 65UV5 flame scanner is a microprocessor-based flame scanner utilizing an ultraviolet tube-type sensor and an electro-mechanical self-checking shutter mechanism. The Fireye 65UV5 flame scanner incorporates an internal flame relay with a fixed ON/OFF threshold thereby eliminating the need for an external flame amplifier.



65UV5

Phoenix 85UVF

The Fireye Phoenix type 85UVF/IRF flame scanners are microprocessor-based devices utilizing a solid state flame detection sensor. The Phoenix flame scanners incorporate an internal flame relay with automatically set ON/OFF thresholds, thereby eliminating the need for a remote flame amplifier or flame switch.



85UVF

InSight 95IR/95UV/95DS

The Fireye InSight Type 95IR, 95UV, and 95DS flame scanners are microprocessor-based flame scanners utilizing solid state infrared (IR), ultraviolet (UV) or dual (IR and UV) sensors. The Fireye InSight Type 95 flame scanners incorporate an internal flame relay with adjustable ON/OFF thresholds, thereby eliminating the need for a remote flame amplifier.



InSight

INFRARED FLAME SENSORS

Fireye Part Number	Description
48PT1-1003	1/2" NPT Straight Mount, 8' Lead Wire, Older Style*
48PT1-9003	1/2" NPT Angle Mount, 8' Lead Wire, Older Style*
48PT1-9007	1/2" NPT Angle Mount, 4' Lead Wire, Older Style*
48PT2-1003	1/2" NPT Straight Mount, 8' Lead Wire
48PT2-1007	1/2" NPT Straight Mount, 4' Lead Wire
48PT2-9003	1/2" NPT Angle Mount, 8' Lead Wire
48PT2-9007	1/2" NPT Angle Mount, 4' Lead Wire

ULTRAVIOLET FLAME SENSORS

Fireye Part Number	Description
UV1A6	1/2" NPT Mount, 6' Lead Wire, Non-Replaceable Tube
UV2	3/8" NPT Mount, 3' Lead Wire, Non-Replaceable Tube
45UV5-1009	1" NPT Mount, 8' Lead Wire, Self-Checking, Explosion Proof

*Older Style: P-Series Controls (e.g. 28FJ8, 29RF5)

FIREYE NEXUS - *Integrated Flame Safeguard Capabilities!*

NXF4000

The NXF4000 is an electronic parallel positioning and O2 trim combustion control system built into a compact, flexible user-configurable package. This controller will support sequencing/lead lag and up to 10 servo motors.

PPC6000

The Fireye PPC6000 is a state of the art stand-alone parallel positioning system for all types of liquid or gaseous fuel fired combustion systems. When combined with a Fireye flame safeguard system such as the Fireye BurnerLogix control, the PPC6000 offers the most compact and advanced parallel positioning system available.

PPC4000

The PPC4000 is an electronic parallel positioning and O2 trim combustion control system built into a compact, flexible user-configurable package. This controller will support sequencing/lead lag and up to 10 servo motors.

NXD410 Keypad Display

The NXD410 is a full text-based LCD display. Fifteen keys, including fast-access, one-push keys, provide information at a glance.

Servo Motors

Three servo motor sizes are available for the PPC4000. High accuracy 0.1 degree over 90 degrees resolution.

O2 Probe

Fireye's oxygen probe provides stack temperature and oxygen measurement. Available in three lengths with a low cost replaceable sensor. Oxygen trim automatically and continuously compensates for all the variables that affect efficient combustion.

ABB Variable Frequency Drive

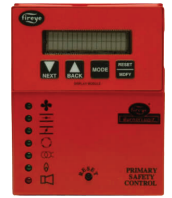
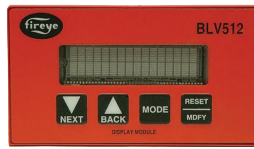
Full range of drives from 208-240, 380-480 and 500-600 volts three-phase. Save time during commissioning while reducing programming errors that can lead to nuisance faults. Additional product features:

- Pre-configured at the factory for use with the Fireye Nexus product line
- Auxiliary contact blocks mounted and wired to terminals for Blower Motor Starter Interlock requirement
- One additional auxiliary contact block for profile selection when applied with the Fireye PPC series, mounted and wired to terminals
- Single line voltage input for start in both VFD and Bypass mode
- Line voltage contactors for drive output and bypass
- Dedicated ABB/Fireye wiring diagram clearly showing all required interconnecting wiring between the Nexus and the drive. Also includes a list of all option parameters changed by the factory for reference.

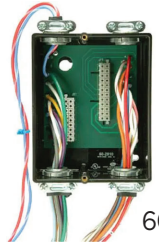


BURNERLOGIX

Chassis/Amplifier	120 VAC, 50/60 Hz YB110UV, YB110UVSC, YB110IR, YB110FR, YB110DC 230 VAC, 50/60 Hz YB230UV, YB230UVSC, YB230IR
Programmer Module	YP100, YP102, YP200, YP202, YP300, YP302, YP113, YP138, YP118
Display Module	BLV512 - Vacuum Fluorescent, BLL510 - Liquid Crystal
Wiring Base	60-2814-1 Open Bottom, Cabinet Mount 60-2812-1 Closed Bottom, Conduit Knockout
Wiring Base	60-2810-1 Pre-Wired, 4-Foot, Color-Coded



BLV512 w/Optional Display & Programmer



Note: The Phoenix QDWR models with electrical quick-disconnect have replaced the original WR models equipped with 10 feet of captive cable. The QDWR models (with 59-546-X cables) are also suitable for use in Class I Division 2 hazardous areas, thereby eliminating the need for the "EXWR" models.

VERIS WET DIFFERENTIAL PRESSURE SENSORS

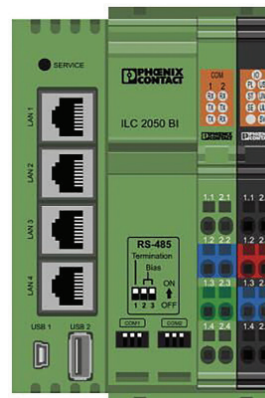
PWLX04S	12 to 30 VDC/24 VAC Input 4 to 20 mA/0 to 5 V/0 to 10 V Output Wet Media Differential Pressure Transducer with LCD Display, 0 to 100 psig
PW2LX04S	12 to 24 VDC Input 4 to 20 mA Output Wet Media Differential Pressure Transducer with LCD Display, 0 to 100 psig
PWRLX04S006A	15 to 30 VDC/24 VAC Input 4 to 20 mA/0 to 5 V/0 to 10 V Output Wet Media Differential Pressure Remote Transducer with 6 ft Armored Cable, 0 to 100 psig
PWXX04S	12 to 30 VDC/24 VAC Input 4 to 20 mA/0 to 5 V/0 to 10 V Output Wet Media Differential Pressure Transducer, 0 to 100 psig



PHOENIX CONTACT ILC 2050 BI

The ILC 2050 BI is a Niagara-based controller that is ideal for mission-critical applications, including boiler rooms. It is compatible with the existing Niagara workbench used to program any Niagara controller. Its I/O is easily discoverable within the Niagara workbench with free rivers specific to this controller. The ILC 2050 BI includes the following features:

- Industrially-graded hardware
 - UL 508 certification
 - Shock-and-vibration testing
 - I/O port-to-port isolation
- Dense I/O expandability in a small footprint
- Modularity of I/O for mixing and matching signals as needed
- Time-optimized engineering using the Niagara 4 framework
- Support for all the main communication protocols used in building infrastructure automation
- Planning, engineering, and visualization in the Java-based Niagara 4 framework
- Easy extension of the Niagara 4 framework with self-programmed functions
- Four LAN, two USB, and two RS-485 interfaces are integrated
- Safe and reliable intelligent safety solutions protect personnel and machinery, and ensure high system availability



YASKAWA MATRIX DRIVE

The HV600 variable-speed drive (3-250 HP) is engineered for use in HVAC building automation applications requiring reliable motor control. The HV600 features your choice of IP20/UL Type 1, IP55/UL Type 12, or IP20/Protected Chassis protection classes. Every HV600 comes with HVAC application-specific software presets, a Hand-Off-Auto LCD keypad, a high-visibility Status Ring for quick visual indication of drive status, and a real-time clock for system accuracy.

- Simple steps for efficient commissioning
- DriveWizard® Mobile app for drive management on smart mobile devices
- Safe programming without main three-phase power
- Timer controls for starting, stopping, and speed changes
- Built-in building automation protocols
- Emergency Override for occupant safety in fire events

The Z1000U Matrix Drive incorporates matrix technology to directly convert input AC voltage to output AC voltage. The drive is ideally suited for HVAC applications providing **ultra-low harmonic distortion**, energy savings, and serviceability in a space-saving design. The Z1000U HVAC Matrix Drive was honored with the **Product of the Year Award** by Consulting-Specifying Engineer Magazine.

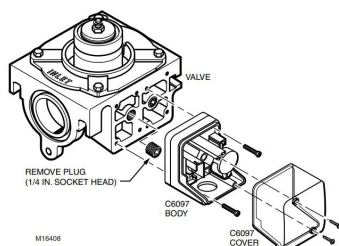


HV600



Z1000U

V5097A,B VALVE



Part Number	Description; Pipe Size
V5097A1004/U	Small Body Low Pressure Integrated Valve; 3/4", 1", 1-1/4", 2"
V5097A1012/U	Large Body Low Pressure Integrated Valve; 2", 2-1/2", 3"
V5097B1002/U	Small Body Low Pressure Integrated Valve; 3/4", 1", 1-1/4", 2"
V5097B1010/U	Large Body Low Pressure Integrated Valve; 2", 2-1/2", 3"

V48/V88 - DIAPHRAGM GAS VALVES

Part Number	Pipe NPT	Pressure
120V		
V48A2151	3/4"	1/2 psi
V48A2169	1"	1/2 psi
V48A2177	1-1/4"	1/2 psi
V48A2185	1-1/2"	1/2 psi
V48A2243	2"	1 psi
V48A2250	2-1/2"	1 psi
V48A2268	3"	1 psi
24V		
V88A1659	3/4"	1/2 psi
V88A1618	1"	1/2 psi
V88A1626	1-1/4"	1/2 psi
V88A1634	1-1/2"	1/2 psi
V88A1709	2"	1 psi
V88A1717	2-1/2"	1 psi
V88A1725	3"	1 psi

REPLACEMENT PARTS

Gas Valve Actuators

V4055A1064	120V, 5 psi, 26 Sec
V4055A1098	120V, 5 psi, 13 Sec
V4055D1019	120V, 5 psi, 13 Sec used w/proof of closure
V4062A1131	120V, 5 psi, 13 Sec Hi-Lo-OFF



Honeywell

Pilot Valves

V046C	1/8", 1/4" or 3/8"
-------	--------------------

Main Gas Valves

V5055	1"
V5055	1-1/4"
V5055	1-1/2"
V5055	2-1/2"
V5055	3"



HYDRAMOTOR GAS VALVES



The normally-closed aluminum body valves provide main line gas shutoff and control for boilers, furnaces and ovens. Also with flanged cast iron body for pipe sizes up to 6".

Actuators

AHD Series Actuators have been replaced with the E Series. The valve body must be changed as the new style will not fit on the old body style.

AH2E102A4	On/Off Slow Opening
AH2E112A4	On/Off Fast Opening
AH2E112S	On/Off, Fast Open, Proof of Closure
AH4E112S4	Hi/Low/Off, Fast Open, Proof of Closure
AH4E112A4	Hi/Low/Off, Fast Open
AH8E112A4	Modulating

Valves - Standard for On-Off Applications

V710EBS	3/4"
V710FBS	1"
V710GBS	1-1/4"
V710HBS	1-1/2"
V710JBS	2"
V710KBS	2-1/2"
V710LBS	3"
V710NBF	4"

C7097A,B INTEGRATED PRESSURE SWITCHES

Can be mounted on V5097 Valve

Part Number	Description
C7097A3012	3 to 21" WC, Manual Reset, NO, 1/4" NPT
C7097A3020	3 to 21" WC, Manual Reset, NO, Mounts on V5097 Valve
C7097B3028	3 to 21" WC, Manual Reset, NC, 1/4" NPT
C7097B3036	3 to 21" WC, Manual Reset, NO, Mounts on V5097 Valve
C7097A3004	.4 to 5" WC, Auto Recycle 1/4" NPT, Use with VPS



AH/V710



8215 Series

SOLENOID VALVES | VENT VALVES

The normally-closed gas valves are used for pilot or main gas shut-off applications. Actuator and valve assemblies - 120V.

V4295A1015	1/2" NPT, 2 psi	Normally-Open Vent Valves
V4295A1023	3/4" NPT, 2 psi	
V4295A1031	1" NPT, 2 psi	
V4295A1049	1-1/4" NPT, 2 psi	
V4295A1056	1-1/2" NPT, 2 psi	
V4295A1064	2" NPT, 2 psi	
V4295S1005	3/4" NPT, 2 psi	
V4295S1013	1" NPT, 2 psi	
V4295S1021	1-1/4" NPT, 2 psi	

VENT VALVES

2-Way, Normally Open, 120V

8215G033	3/4"
8215C053	1"
8215C063	1-1/4"
8215C073	1-1/2"
8215C083	2"

ACTUATORS AND VALVES

Designed to install faster, operate safer, and deliver proven reliability, Siemens VG Series Single and Double Gas Valves combine with SKP Series Electro-Hydraulic Actuators to provide gas safety shutoff, constant pressure regulation and air/gas ratio control.

To meet all of your application needs, VG Series Gas Valves are available in the following sizes:

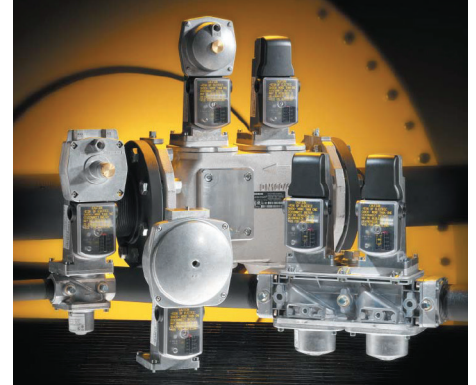
- 1-1/2 to 3" threaded double valves
- 4 to 6" flanged double valves
- 1/2 to 3" threaded single valves

VGG10.254U	1" Gas Valve Body
VGG10.404U	1-1/2" Gas Valve Body
VGG10.504U	2" Gas Valve Body
VGG10.654U	2-1/2" Gas Valve Body
VGG10.804U	3" Gas Valve Body

Providing gas safety shutoff control for industrial and commercial burner applications, all SKP Actuators deliver reliable and safe on-off control:

- Proof-of-Closure (POC) Over Travel to ensure safety
- Modular design and quick connect wire terminals for fast installations
- Extremely low 13.5 VA power consumption

SKP15.011U1	On/Off Safety Shut Off Valve Actuator
SKP25.011U1	On/Off Safety Shut Off Valve Actuator w/(SPDT) Proof Of Closure Switch



SIEMENS



GET EXPERT ADVICE!

Did you know Cochrane Supply has dedicated **Flame Safeguard and Combustion Controls Experts** on staff? Paul Wisnieski (paulw@cochrane supply.com) and Chris Myers (cm Myers@cochrane supply.com) have more than 60 years of combined FSG industry experience and are here to support you! Contact them with your questions today!

SINGLE GAS PRESSURE SWITCHES

Maximum Pressure: 15 PSI, Ambient Temperature: -40° to 170°F

Manual Reset High Range (HGP-G)	8103116101	0.5" to 4" WC
	8101111202	1" to 21" WC
	8101111303	5" to 35" WC
Manual Reset Low Range (LGP-G)	8103116101	0.5" to 4" WC
	8103116202	1" to 21" WC
	8103116303	5" to 30" WC
Auto Reset High Range (RHGP-G)	8102111101	0.2" to 2" WC
	8102111102	0.8" to 4" WC
	8102111304	5" to 35" WC
Auto Reset Low Range (RLGP-G)	8104116304	5" to 30" WC
	8104116102	0.5" to 4" WC
	8104116203	3" to 21" WC



HGP-G/LGP-G

DOUBLE GAS PRESSURE SWITCHES

Maximum Pressure: 10 PSI, Ambient Temperature: -40° to 170°F

Manual Reset	Auto Reset	High Range	Low Range
804111701	804112101	2" to 16" WC	1" to 6" WC
804111702	804112102	5" to 28" WC	1" to 6" WC
804111703	804112103	10" to 50" WC	1" to 6" WC
804111704	804112104	2" to 16" WC	2" to 14" WC
804111705	804112105	5" to 28" WC	2" to 14" WC
804111706	804112106	10" to 50" WC	2" to 14" WC



HGP-A
Replacements still available

AIR DIFFERENTIAL VACUUM PRESSURE SWITCHES

Maximum Pressure: 10 PSI, Ambient Temperature: -40° to 170°F

801111301B	JD-2 Blue Spring	0.07" to 1.7" WC
801111302B	JD-2 Gray Spring	0.1" to 4" WC
801111303B	JD-2 Red Spring	0.1" to 24" WC



HLGP-A

QP PRESSURE SWITCHES

The QP Pressure Switch is available in a variety of pressure ranges and can be easily automatically or manually reset.

QPH31.050M00	High Pressure Switch 2-20" wc Manual Reset
QPH31.150M00	High Pressure Switch 10-60" wc Manual Reset
QPH31.050A00	High Pressure Switch 2-20" wc Auto Reset
QPL31.010M00	Low Pressure Switch 1/2-4" wc Manual Reset
QPL31.050M00	Low Pressure Switch 1-20" wc Manual Reset
QPL31.010A00	Low Pressure Switch 1/2-4" wc Auto Reset



LEVER ACTING REGULATORS

Operating inlet pressure certified up to 2 psi, 8" wc, come with 7" to 11" wc spring

Part Number	Pipe Size	Capacities to...
325-3L-44	1/2" NPT	250 CFH
325-5L-66	3/4" NPT	600 CFH
325-5L-88	1" NPT	600 CFH
325-7L-1010	1-1/4" NPT	1,250 CFH
325-7L-1212	1-1/2" NPT	1,250 CFH
325-9L-1212	1-1/2" NPT	2,250 CFH
325-9L-1616	2" NPT	2,250 CFH
325-11L-2020-NG02	2-1/2" NPT	4,500 CFH

BALANCE VALVE REGULATORS

Operating pressure up to 10 psi, outlet pressure 1" wc to 42" wc, comes with 3" to 6" wc

Part Number	Pipe Size	Capacities to...
210D-88	1" NPT	5,000 CFH
210D-1010	1-1/4" NPT	6,500 CFH
210D-1212	1-1/2" NPT	6,500 CFH
210E-1616	2" NPT	12,000 CFH
210G-2020	2-1/2" NPT	24,000 CFH
210G-2424	3" NPT	27,000 CFH

SELECTRA - GAS FLAME MODULATION SYSTEM

For use with direct fired burners - standard temperature adjustment range 55° to 90°F, capacities to 30,000,000 BTU/H

Valves and Accessories for Both Series

M411-44	1/2" Modulating Gas Valve
M511-34	1/2" x 3/4" Modulating Gas Valve
M611-88	1" Modulating Gas Valve
SC10C-B651	Signal Conditioner (4 to 20 mA to Valve)
MT1-9	Mixing Tube and Sensor (9" Length)

Series 14 System - Used in Make-Up Air Applications

A1014R	Amplifier (Used with All Temperature Ranges)
A1014L	Amplifier (All Ranges - Low Fire Start)
TD114	Remote Temperature Selector (55° to 90°F)
TD114A	Remote Temperature Selector (80° to 130°F)
TS114	Discharge Air Temp Sensor (55° to 90°F)
TS114A	Discharge Air Temp Sensor (80° to 130°F)

Series 44 System - Used in Space Heating Applications

A1044R	Amplifier (Min 40° to 80°F, Max 80° to 140°F)
T244	Selectrastat (Senses & Selects; 55° to 90°F)
TS144	Discharge Air Temp Sensor (Min 40° to 80°F, Max 80° to 140°F)

MAXITROL

**325-3L**

ISA Certified for 2 psi (LP)
and 5 psi (natural)

**A1014R**

NORGAS QUICK SELECTION GUIDE

1) Choose regulator type by inlet PSI and SCFH capacity

Flow CFH of Natural Gas 7" w.c. Outlet

NGR02

7" w.c. Set Point - 1" Pressure Drop					
Inlet Pressure	ORIFICE				
	1/8"	3/16"	1/4"	3/8"	1/2"
0.5	117	101	169	203	242
1	136	148	210	260	571
2	221	210	296	377	1039
3	234	257	460	468	1429
5	292	351	649	1169	1558
10	338	545	1091	1748	1740
15	390	701	1481	2104	
20	491	818	1870	2403	
30	619	1286	2571		
40	717	2260	3251		
50	805	2494	3636		
60	997	2571	4052		
80	1403	3696			
100	1675	4595			
125	1850	4812			

Green S02A used to develop table

NGR06

7" w.c. Set Point - 1" Pressure Drop						
Inlet Pressure	ORIFICE					
	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"
1	390	1130	2338	2805	3312	4052
2	662	2065	3584	3390	5649	6273
3	857	2416	3896	4208	6701	8805
5	1130	3039	5299	5297	8961	12831
8	1442	3701	6390	6701	12234	15195
10	1558	4052	6857	7052	15506	15584
15	1948	4870	8182	8416	21569	23616
25	2649	6156	10909	12952	25650	26598
35	3273	6390	14776	16782	28273	
50	4325	6244	19455	22492	32338	
60	5206	8522	22585	26304	34117	
75	6000	9780				
100	7286	11927				
125	9402	13988				

Black S0608C used to develop table

NGR04

7" w.c. Set Point - 1" Pressure Drop						
Inlet Pressure	ORIFICE					
	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"
1	377	740	1013	1039	2065	2078
2	623	1140	1636	1818	3740	3896
3	805	1299	2143	2961	4948	5610
5	935	2104	4403	5000	6935	8571
8	1325	3000	5844	6429	9195	10987
10	1558	3299	6390	7052	10286	11065
15	2026	3896	8104	8571		
25	2610	4156	11610			
35	3195	4909				
50	4286	5961				
75	6234					
100	7247					
125	9399					

Gray S04B used to develop table

NGR08

7" w.c. Set Point - 1" Pressure Drop								
Inlet Pressure	ORIFICE							
	1/4"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-3/8"
1	390	857	982	2104	2961	4208	4286	6234
2	545	1403	1543	3039	3818	5143	7636	8961
3	701	1714	1964	3896	4831	5766	9039	9896
5	1013	2494	2665	5455	6390	6701	11610	12779
8	1247	3195	5844	7169	9662	12857	16364	17532
10	1558	3662	6468	8961	11065	15662	18701	21662
20	2182	5377	9818	14182	19558	20260	26883	37403
30	3117	7013	12779	19481	25169	25714	32338	
40	3896	8416	16753	23377	27273	27662	37403	
50	4831	9818	21506	25325	28501	28675		
60	5922	11221	27273	33662	33850	34121		
70	6692	13372						
90	8446	16626						
125	11512	22308						

Green S0608B used to develop table



NGR02

- 1/2" to 1-1/4" NPT
- Inlet 10 to 125 psi
- Outlet 6.5" WC to 5 psi



NGR04

- 1-1/4" NPT to 3" FL
- Inlet 10 to 125 psi
- Outlet 3" WC to 3 psi



NGR06

- 1-1/4" to 3" FL
- Inlet 25 to 125 psi
- Outlet 2" WC to 7 psi



NGR08

- 1-1/4" NPT to 3" FL
- Inlet 25 to 125 psi
- Outlet 2" WC to 7 psi

NGR02

Spring Chart		
Color	Outlet Range	P/N
Green	6.5"wc - 16"wc	S02A
Silver	14"wc - 1psig	S02B
Yellow/Black	26"wc - 1.5psig	S02C
Yellow	1psig - 3psig	S02D
White (HP)	2psig - 5psig	S0204E

NGR06

Spring Chart		
Color	Outlet Range	P/N
Orange	2"wc - 4"wc	S0608A
Green	3"wc - 7"wc	S0608B
Black	5"wc - 13"wc	S0608C
Purple	7"wc - 20"wc	S0608D
Silver	19"wc - 2 psig	S0608E
Yellow	1.5 psig - 3 psig	S0608F
White	2.5 psig - 7 psig	S0608G

NGR04

Spring Chart		
Color	Outlet Range	P/N
Brown	3"wc - 7"wc	S04A
Gray	4"wc - 13"wc	S04B
Black	9"wc - 14"wc	S04C
Blue	9"wc - 15"wc	S04D
Silver	12"wc - 20"wc	S04E
Red/Gray (HP)	13"wc - 28"wc	S04F
Yellow (HP)	1psig - 2psig	S04G
Red (HP)	1psig - 2.5psig	S04H
White (HP)	1psig - 3psig	S0204E

NGR08

Spring Chart		
Color	Outlet Range	P/N
Orange	2"wc - 4"wc	S0608A
Green	5"wc - 8"wc	S0608B
Black	8"wc - 18"wc	S0608C
Purple	13"wc - 24"wc	S0608D
Silver	1 psig - 2 psig	S0608E
Yellow	2 psig - 4 psig	S0608F
White	4 psig - 7 psig	S0608G

SEITRON AMERICAS EMISSIONS ANALYZERS



S1500-P Portable Combustion Analyzer with Built-In Printer

S1500-P Analyzer with O₂, CO, CO₂, Efficiency, Excess Air, Draft, Pressure, Temp, Rechargeable Battery and AC Plug, 12" (300mm) Probe with 5' (1.5m) Dual Hose, ABS Case, Calibration Certificate, Operating Manual, Cheat Sheet, Water Trap, Paper Roll, 2000 Internal Data Storage, PC Software, Bluetooth™ Connectivity, Differential Pressure Manometer Kit (1 Hose), Automatic Outdoor Air Temperature Saving for ALL 90%+ Systems and Condensing Systems for TRUE Efficiency Calculations + iOS and Android App Included.



S1500-P

S4500-3 Portable Commercial/Industrial Emissions Analyzer

S4500-3 Analyzer with O₂, CO, Standard NO/NO_x Gas Sensors, Upgradable to 4th Gas Sensor. Efficiency, Excess Air, Draft, Pressure, Temp, Rechargeable Battery and AC Plug, 12" (300mm) Probe with 5' (1.5m) Dual hose, ABS Case, Calibration Certificate, Operating Manual, Cheat Sheet, Water Trap, Paper Roll, 2000 Internal Data Storage, PC Software, Bluetooth™ Connectivity, Differential Pressure Manometer Kit (1 Hose), Automatic Outdoor Air Temperature Saving for ALL 90%+ Systems and Condensing Systems for TRUE Efficiency Calculations + iOS and Android App Included.



S4500-3

All-New Novo Portable Combustion Analyzer

The new Novo Combustion Analyzer is designed to make combustion analysis quick and intuitive. Robust, reliable, precise. The new Novo inherits the tradition of the Seitron analyzers and joins it with renewed software and hardware in order to offer a device easier to use. Main Features: With or Without Build-In Printer, 7" Touch Display for Easy Menu Navigation, Up to 4 Gas Sensors Including Low NO_x, Long-Life O₂ Sensor and High-Range CO With Dilution Pump, Dedicated Probe With One Simple Connection, Integrated Water Trap with LED Backlight for Easy Maintenance, Simultaneous Measurement of Gas and Combustion Results, New Dual Range Sensor Technology, and More.



Novo Series

TESTO COMBUSTION ANALYZERS

300 Combustion Analyzer

The user-friendly and highly efficient testo 300 with smart-touch technology has numerous advantages, including but not limited to:

FEATURES:

- Operation via smart-touch - The smart-touch display responds immediately without any delay, allowing intuitive operation.
- Emailing of reports - The testo 300 enables the convenient creation of documentation directly on site, and the dictation function even saves you typing in the process. Send reports immediately via Wi-Fi.
- Keep an eye on all measuring values - You can see the system's parameters right away on the large 5" HD display.
- Get the results faster - Clearly structured menus for all relevant measurements are already stored in the measuring instrument and guide you efficiently through the application.
- Completely worry-free - It has quality sensor technology, measures high CO values up to 30,000ppm and comes standard with the longest warranty in the industry.



300

ACTI

Video Surveillance & Analytics

Acuity Brands

Lighting Controls

Adams Manufacturing

Ignition Modules

Advanced Controls, Inc.

Relays & Starters

AIPHONE

Intercom Solutions

Altronix

Security Power Solutions

ANT Technologies

Cloud-Based Project & Service Tracking

Antunes

Pressure Switches

Apollo (Air Products)

Fire Detection Systems

ASCO

Solenoid Valves

Automation Components, Inc.

BAS Sensors & Transmitters

AXIS Communications

Video Surveillance

BAPI

BAS Sensors & Transmitters

Barnes & Jones

Steam Traps & Repair Parts

BASO Gas Products LLC

Gas Valves, Pilots, Ignition Modules

Belimo

Actuators, Control Valves & BAS Sensors

Bell & Gossett

Pumps & Valves

Blue Ridge Technologies

Lighting Controls

Cleveland Controls

Prove, Measure, Control Air Flow

Conbraco (Apollo Valves)

Ball Valves & Safety Relief Valves

Connect-Air

Wire & Cable

Contemporary Control Systems

Networking & Controls

Crown Engineering

Electrodes, Flame Rods & Probes

Cyber Power

Power Protection Equipment

Danfoss

Radiator Sensors & Valves

Dell

Servers & PCs

DGLogik, Inc.

Custom Dashboards & Control Interface

Distech Controls

Building Controls, BAS Software & Field Components

Dongan Electric

Ignition Transformers & Inductors

Dormakaba

Door Locking Devices

Dwyer Instruments

Sensors, Transmitters & Test Instruments

Eagle X Pro

Bi-Polar Ionization

EasyIO

Building Controls

ecobee

WiFi Thermostats

Fireye

Flame Safeguard & Integrated Scanners

Functional Devices

RIB Relays, Current Sensors & Power

GC Valves

Water & Steam Valves

Greystone

BAS Sensors & Transmitters

Hankinson – SPX

Air Dryers

Heat Timer

Boiler and Hot Water Controls

HID Global

Card Readers & Solutions

Hoffman

Air Vents

Honeywell Analytics (Vulcain)

Gas Detection

Honeywell Building Technology

Building Controls, BAS Software & Field Components

Honeywell Genesis Cable

Wire & Cable

Honeywell Homes (Resideo)

Residential Comfort & Safety

Honeywell Thermal Solutions

Flame Safeguard & Combustion

IDEC

Relays

Infrared Cameras Inc

Temperature & Thermal Imaging

Intermatic (Grasslin)

Timer Controls

IPVideo Corporation

IoT Smart Sensing

Johnson Controls

Building Controls, BAS Software & Field Components

Kantech

Tyco Security Products & Access Control

KMC Controls

Building Controls, BAS Software & Field Components

Kodaro

System Integration Drivers for AX & N4

MA-Line

Tools, Wiring Accessories & Fittings

Mag Daddy

Magnetic J-Hooks, Bridle Rings & Cable Holders

Maxitrol

Gas Regulators, Selectra & Gas Filters

MaxLine Solutions

System Integration Drivers for AX & N4

McDonnell Miller

Boiler Controls, Flow Switches & Valves

Milestone

Video Surveillance

Neopsis

C-Bus Integration Devices

Neptronic

BAS Controls, Actuators & Valves

Norgas

Gas Regulators & Meters

ONICON

Flow & BTU Meters

Optigo Networks

Networks & BACnet Networking Tools

Phoenix Contact

Industrial Controls, Panel Accessories & Networking

Prolon Controls

Light Commercial Building Controls

Relevant Solutions (Intec Controls)

Gas Detection

RLE Technologies

Raised Floors & Airflow, Leak Detection,

Monitoring/Integration

Safety Technology International, Inc. (STI)

Emergency Buttons & Security Protection

Saginaw Controls

Enclosures & Back Plates

Schneider Electric (Robertshaw & Barber

Colman)

Building Controls, Lighting & Field Devices

Sensaphone

Remote Monitoring

Setra Systems

Humidity & Pressure Transducers

Siemens Combustion Controls

Flame Safeguard & Combustion

Siemens Landis

Building Controls & Field Devices

Seitron Americas

Combustion Analyzers

System Sensor

Smoke Detector Controls

TCS Basys Controls

Building Controls

Tekmar Controls

Boiler Controls

Testo

Combustion Analyzers

Tosibox

VPN Solutions

Totem

Cyber Security Compliance Services

Triatek

Fume Hood Controls

Tridium, Inc.

Building Automation & Security Software

United Enertech

Dampers, Louvers, Fans & Air Measuring

Vaisala, Inc.

Sensing Devices

Valley Tool & Design

Damper Accessories

Veris Industries

Energy Management Solutions

Viconics

Building Controls

Wattstopper by Legrand

Lighting Controls

Weiss Instruments

Temperature & Pressure Instruments

Westwood Products

Flame Rods & Igniters

White Rodgers

Building Controls

Yaskawa

Variable Frequency Drives



SCAN ME

**COCHRAN
SUPPLY**

*Striving to make our customers **successful** since 1967.*

HEADQUARTERS
30303 Stephenson Hwy
Madison Heights, MI 48071
800.482.4894

SOUTHWEST DETROIT
25345 Plymouth Rd
Redford, MI 48239
313.387.3025

WESTERN MICHIGAN
1058 Scribner NW
Grand Rapids, MI 49504
800.306.5104

NORTHWEST OHIO
14 South Superior St
Toledo, OH 43604
419.243.1711

NORTHEAST OHIO
1503 Brookpark Rd
Cleveland, OH 44109
216.465.3595

INDIANA
5347 W Raymond St
Indianapolis, IN 46241
463.900.4117

KENTUCKY
11501 Plantside Dr, Ste 1
Louisville, KY 40299
502.208.3640

COLORADO
New Territory!
Denver, CO
502.208.3640



www.cochranesupply.com