

Industrial Flame Monitoring

Honeywell



**Engineered For The
Toughest Environments**



The ideal blend of form, function, and flame detection.

Honeywell Industrial Flame Monitoring (IFM) offers reliable, durable and flexible solutions for the most challenging applications and toughest environments. Tailor made for the unique demands of industrial processes, Honeywell IFM products are designed for the highest level of function and flame discrimination. Remote configuration, monitoring and diagnostics, as well as multiple sensor options, make Honeywell the ideal solution for a wide array of industrial processes and applications.

Honeywell IFM Technology

Honeywell Industrial Flame Monitoring systems use shutter-less UVTron with pulse technology. UVTron based systems are not adversely affected by x-ray and gamma rays making them ideal for flame monitoring in the toughest environments. Multiple sensors operating independently provide monitoring of difficult flames and a high level of discrimination. In addition, adjustable flame on/off threshold, gain and flicker settings provide for ease of configuration. All industrial flame monitoring products are fit for use in SIL 3 applications for reliable operation to meet a wide range of applications.

Easy and Flexible Programming

Choose from three programming methods that all offer flexibility and fine-tuning:

- Automatic
- Manual
- Factory default

Reliable, Durable and Flexible Flame Monitoring Solutions

Flexible Application

Honeywell IFM products are the ideal solution for a wide array of industrial processes and applications.

- Available in AC or DC with multiple inputs
- Multiple sensor options to meet application needs
- Independent configuration for each sensor
- Meets international safety standards*
 - Class I div 1 groups E, F and G
 - Class I div 2 groups E, F and G
 - Ex nA and Ex d
 - CSA/FM
 - Pending EN298 and KTL
 - SIL 3 capable
 - INMETRO

*For complete list of approvals please visit customer.honeywell.com.

- User selectable scaleable 0/4-20 mA flame signal output
- Viewing head temperature indication
- Multiple high-pass flicker frequency selection

X-Ray and Gamma Ray Immune

Viewing heads are not affected by x-rays and gamma rays during pipe weld checks; ideal for industrial applications.

Key Application Attributes

- Multiple sensors enable reliable monitoring of all fuel flames
- Adjustable gain, "Flame On" and "Flame Off" threshold settings
- Digital processing results in reduced field set-up time
- For ease of replacement, processor can be pre-configured
- Easy-to-replace processor plug in connections
- Wide range of gain adjustment and multiple flicker frequency to monitor flame in all firing conditions

Burner Management System Interface

Each signal processor includes two or more SPDT flame relay contacts and one SPDT self-check relay contact, allowing for interlock, monitoring, and easy distinction between hardware, software, and flameout faults.

The U2 Series includes a normally open flame on contact and a normally open (failsafe) fault check relay contact. The fault relay contact is internally wired to the flame relay coil for enhanced safety.



Industry Applications

Refineries

Petroleum
Petrochemical
Utility/power generation
Pulp/paper
Metals

Boilers

Industrial process
Black liquor recovery
Co-generation
Grate fired
Cement or lime kilns
Claus reactors (H₂S)
Thermal oxidizers
Gas turbines

Burners

Single or multiple burners
Combination fuel firing oil-gas and coal
Low NO_x
Opposed fired
Hydrogen
Duct
Register
Exotic fuels
Hostile environment



S70X and S80X Series Viewing Heads

The perfect fit for single-fuel applications.



Model S70X/S80X viewing heads are used with 700, P531 or P532 signal processors and are ideal for single-fuel applications where a high level of discrimination is not required. The viewing heads contain UVTron with pulse technology making them ideal for low NOx gas burners where there are small and slow moving flames.

Features

Multiple models (IR or UVTron) offer application flexibility.

All models include electronic check (no mechanical shutter) for self-check of the system.

Quick disconnect cable includes two LED's: one for self check indication and one for flame on flashing proportional to flame strength.

PF models have a factory installed cable.

Specifications

Input power: 22 to 26 VDC from the processor.

Ambient temperature: -40°F to 185°F (-40°C to 85°C).

NEMA 4X rated.

Not adversely affected by x-ray and gamma rays.

Models

Part Number	Sensor Type	Description
S702	IR	Quick disconnect cable. Suitable for oil.
S702PF	IR	Factory installed cable. Suitable for oil.
S706	UVTron	Quick disconnect cable. Suitable for clean gaseous fuel.
S706PF	UVTron	Factory installed cable. Suitable for clean gaseous fuel.
S802	IR	Quick disconnect cable. Suitable for oil.
S806	UVTron	Quick disconnect cable. Suitable for clean gaseous fuel.

S70X Approximate Dimensions:

9.4" Length (230 mm), 1.48" Barrel Diameter (36 mm). Polished aluminum body.

S80X Approximate Dimensions:

8.9" Length (226 mm), 1.14" Barrel Diameter (29 mm). Stainless steel body.

Approvals

FM, CSA

IEC

Class I div 2 groups A, B, C and D, T4A

IEC CSA 10.0003 Ex nA IIC T4 Gc

Fit for use in SIL 3 applications

700 Series Signal Processors

Delivers reliable monitoring, day in and day out.



Model 700 signal processors are single-channel, fail safe, self-checking flame monitoring systems when used in conjunction with the S70X/S80X series viewing heads. They offer easy setup, medium level discrimination, and high reliability.

Features

- Intuitive keypad for easy setup and configuration.
- Two-digit numeric display and four LED status indicators.
- Compact DIN rail mountable design.
- Plug-in terminal connectors allow for easy installation.
- Low power consumption.
- Environmentally sealed switches.
- Modbus RS422 communication for use with FlameTools-PC or FlameTools-HMI/U supports 32 loops.

Specifications

- Ambient temperature: 32°F to 140°F (0°C to 60°C).
- Flame relay: 2 form C contacts.
- Self-checking relay: 1 form C contact.
- Relay contact ratings: 5A at 125 VAC, 277 VAC, & 30 VDC; 1/8 HP 125 & 250 VAC.
- Analog flame signal: Isolated 0-20 mA or 4-20 mA output for remote meters.
- Auto burner configuration for burner on/off.
- Adjustable flame relay on/off set point.
- Adjustable FFRT 1, 2, or 3 seconds.

Models

Part Number	Description
700ACSP	AC signal processor. 85 to 264VAC, 50 or 60 Hz, 0.07A max with 24VDC backup power.
700DCSP	DC signal processor. 22 to 26VDC, 250 mA max with 24 VDC backup power.
Approximate Dimensions: 5.5" Height (140 mm) x 3" Width (76 mm) x 3" Depth (76 mm)	

Approvals

- FM, CSA
- Fit for use in SIL 3 applications

P522 Series Signal Processors

Ideal for applications where a high level of discrimination is required.



Model P522 signal processors are fail-safe, self-checking signal processors that are used with two switched S55XBE series viewing heads. They offer independent gain adjustments for each sensor and multiple flicker set points for IR which makes them ideal for applications where a high level of discrimination is required.

Features

- 4-digit digital flame signal display, 4 LED status indicators and analog bar graph provide continuous system status.
- Panel mounted design and plug-in terminal connectors allow for easy installation.
- Adjustable Flame on/off threshold.
- Supports two switched viewing heads.
- Two configurable files for remote selection.
- Scalable mA output.
- Modbus RS422 communication for use with FlameTools-PC or FlameTools-HMI/U supports 64 loops.

Specifications

- Ambient temperature: 32°F to 122°F (0°C to 50°C).
- Flame relay: 2 form C contacts.
- Self-checking relay: 1 form C contact.
- Relay contact ratings: 5A at 30 VDC, 125 VAC and 277 VAC.
- Analog flame signal: scaleable 0-20 mA or 4-20 mA output for remote meters, 360 ohms maximum resistance.
- Digital set points for flame on/off.
- 4 wire communication.
- Adjustable FFRT 1, 2 or 3 seconds.

Models

Part Number	Description
P522AC	AC signal processor. 85 to 264 VAC, 47 or 63 Hz with 24 VDC backup power.
P522DC	DC signal processor. 22 to 26 VDC with 24 VDC backup power.
Approximate Dimensions: 7.25" Height (182 mm) x 4.25" Width (108 mm) X 6.4" Depth (163 mm)	

Approvals

- FM, CSA
- Fit for use in SIL 3 applications

P531 and P532 Series Signal Processors

Monitor three viewing heads simultaneously.



Model P531 and P532 signal processors are fail-safe, self checking signal processors capable of monitoring two S55XBE and one S70X series viewing heads simultaneously and can display UV and IR flame count separately when used with S550BE viewing head. P532 includes integrated programming and P531 uses the detachable P532UI user interface for programming. The processors offer independent gain adjustments, and for S552BE and S550BE, multiple frequency settings. Their design makes them ideally suited for tangentially fired boilers where two viewing heads are required for main burner and S70X for side or horn igniters.

Features

P532 includes front panel display with large, bright, three-color alphanumeric dot matrix displays with LED's.

P531 + P532UI detachable user interface reduces cost when multiple units are required.

Ability to monitor UV and IR separately from one S550BE viewing head.

Automatic set up functionality (auto gain, auto sequence and auto filter).

Marginal alarm relays can be configured to provide a secondary indication if flame count drops below set value.

Modbus RS422 communication for use with FlameTools-PC or FlameTools-HMI/U supports 64 loops and 32 loops, respectively.

Specifications

Ambient temperature: -40°F to 140°F (-40°C to 60°C) for FM or 32°F to 125°F (0°C to 52°C) for CSA.

Flame relay: 3 channels of 2 form C contacts.

Self-checking relay: 3 channels of 1 form C contact.

Relay contact ratings: 5A at 32 VDC and 250 VAC.

Analog flame signal: scaleable 0 mA output for remote meters.

Auto burner configuration for burner on/off.

Adjustable FFRT and flame on/off threshold set point.

Models

Part Number	Description
P531AC	AC signal processor. 85 to 264 VAC, 47 or 63 Hz with 24 VDC backup power.
P531DC	DC signal processor. 24 VDC with 24 VDC backup power.
P532UI	Detachable user interface for P531 signal processors.
P532AC	AC signal processor. 85 to 264 VAC, 47 or 63 Hz with 24 VDC backup power.
P532DC	DC signal processor. 24 VDC with 24 VDC backup power.
Approximate Dimensions: 6.7" Height (170 mm) x 4.3" Width (109 mm) x 6.4" Depth (162 mm)	

Approvals

FM, CSA

Fit for use in SIL 3 applications

S55XBE Series Viewing Heads

The ideal solution for monitoring all fuel types.



S55XBE series viewing heads are used with P522, P531 and P532 signal processors. Multiple sensor options of IR, UVTron and IR/UV offer flexibility to meet a wide array of applications. The system is not adversely affected by x-rays and gamma rays during operation making them ideal for monitoring all fuel flames and single or multiple burners firing multiple fuels.

Features

Multiple models (IR/UV, IR only and UVTron only) offer application flexibility.

All models include electronic check (no mechanical shutter) for self-check of the system.

Numeric two-digit display for each sensor on the back of the viewing head provides UV and IR flame count.

Quick disconnect cable (order separately) for non-PF models. PF models provided with factory installed cable.

Mountable in any orientation.

Includes imbedded temperature sensor.

Specifications

Input power: 24 VDC supplied from the processor.

Ambient temperature: -40°F to 158°F (-40°C to 70°C).

NEMA 4X rated.

1" NPT mounting.

Not adversely affected by x-rays and gamma rays.

Models

Part Number	Sensor Type	Description
S550BE	IR/UV	Quick disconnect cable. Suitable for all fuels.
S550BE-PF	IR/UV	Factory installed cable. Suitable for all fuels.
S552BE	IR	Quick disconnect cable. Suitable for oil and coal.
S552BE-PF	IR	Factory installed cable. Suitable for oil and coal.
S556BE	UVTron	Quick disconnect cable. Suitable for clean gaseous fuel.
S556BE-PF	UVTron	Factory installed cable. Suitable for clean gaseous fuel.

Approximate Dimensions:
8.82" Length (224 mm) x 4.05" Diameter (103 mm).
Powder coated aluminum body.

Approvals

FM, CSA

IEC

Class I div 2 groups A, B, C and D, T5

IEC CSA 10.0010 Ex nA IIC T5 Gc

Fit for use in SIL 3 applications

U2 Series

All-in-one integrated processor and viewing head solution.



The U2 Series is an all-in-one integrated processor and viewing head system which is uniquely suited for single or multi-burner, multi-fuel and difficult flame detection applications. The all-in-one solution eliminates the need for a separate processor which saves on cabinets and wiring. Multiple models and sensor options meet difficult flame monitoring applications requiring a high level of discrimination.

Features

Electronic check (no mechanical shutter) for self-check of the system.

Independent configuration and adjustable gain settings for each sensor.

Ten selectable flicker frequency filters for solid state UV and IR sensor (model dependent).

Fully programmable using touch screen interface with easy to follow scrolling menu structure.

Modbus RS422 communication for use with FlameTools-PC or FlameTools-HMI/U supports 248 loops and 32 loops, respectively.

Specifications

Input power: 22-26 VDC, 120 mA max.

Output relay contacts: one normally open flame relay and one normally open fault/self-check relay, 2A, 30 VDC or 250 VAC.

Ambient temperature: -40°F to 158°F (-40°C to 70°C).

Analog flame signal: 0-20 mA or 4-20 mA output.

Enclosure: IP66 and NEMA 4X.

Adjustable flame on/off threshold.

Adjustable FFRT 1, 2, or 3 seconds.

1" NPT mounting.

Not adversely affected by x-rays and gamma rays.

Models

Part Number	Sensor Type	Description
U2-1010	UV Tron/IR/UVSS*	Quick disconnect cable. Suitable for all fuels.
U2-1010-PF	UV Tron/IR/UVSS*	Factory installed cable. Suitable for all fuels.
U2-1012	IR	Quick disconnect cable. Suitable for oil and coal.
U2-1012-PF	IR	Factory installed cable. Suitable for oil and coal.
U2-1016	UVTron	Quick disconnect cable. Suitable gaseous fuels.
U2-1016-PF	UVTron	Factory installed cable. Suitable gaseous fuels.
U2-1018	UVTron/IR	Quick disconnect cable. Suitable for all fuels.
U2-1018-PF	UVTron/IR	Factory installed cable. Suitable for all fuels.
Approximate Dimensions: 6.1" Length (155 mm) x 4.6" Diameter (117 mm)		

*UVSS coming soon

Approvals

FM, CSA, INMETRO, pending EN 298 & KTL

PF version: Class I div 1 Gr A, B, C, D, E, F, G T6 – NEMA 4X, IEC Ex FMG 13.0023X Ex d IIC T6 Gb IP66

Quick disconnect version: Class I div 2 Gr A, B, C, D T5 - NEMA 4X, IEC CSA13.0023 Ex nA nC IIC T5 Gc IP66

Fit for use in SIL 3 applications

WatchdogIII Flare Stack Monitoring System

Reliable flame monitoring in the toughest environments.



Built rugged to last, the WatchdogIII Flare Stack monitoring system reliably monitors flames from remote locations under difficult conditions such as dust, fog, heavy rain, snow and background sun rays. The ability to connect to an existing ignition system, and its ground mounted design, make it easy to install and service without flare shut down, saving valuable time and money.

Features

Not affected by the sun which allows viewing head to be located anywhere around the flare stack.

Easy to set up with multiple LED's and pushbuttons.

Lightweight and low power consumption.

No moving parts ensures reliability.

Easy installation and service with no plant shut down or flare interruption required.

S256B ground mounted viewing head has a 1000 ft. line of sight range with 40 ft. diameter target (at 1,000 ft.).

P222 signal processor can be remotely mounted.

Specifications

AC power: 85 to 264 VAC (300 mA maximum with viewing head connected), 47-440 Hz with 24VDC backup power.

DC power: 22 to 26 VDC (300 mA maximum with viewing head connected) with 24VDC backup power.

Signal processor ambient temperature: 32°F to 140°F (0°C to 60°C).

Viewing head ambient temperature: -40°F to 176°F (-40°C to 80°C).

Viewing head housing: NEMA 4X.

Analog flame signal: Scalable 0-20 mA or 4-20 mA output.

Two time delay relays: one 0-60 seconds (R1), one 0-3600 seconds (R2).

Models

Part Number	Description
WATCHDOGIII	Kit consisting of P222 signal processor, S256B viewing head, 10-ft. C328 cable and quick disconnect plug.
S256B	Replacement UV flare stack viewing head powered from P522 signal processor.
P222	Replacement Watchdog signal processor.

S256B Approximate Dimensions:
Scope 20.25" (514 mm) x 3" diameter (76 mm)

P222 Approximate Dimensions:
7.25" Height (182 mm) x 4.25" Width (108 mm) X 6.4" Depth (163 mm)

Approvals

QPS to CSA 22.2 (viewing head) for use in Class I div 2 groups C and D, T4

GHE1-3 and GHE2-5 Series Gas Igniters

Reliable, maintenance-free, non-fouling operation.



Designed for continuous operation, GHE igniters are non-fouling, inextinguishable, high-energy igniters. The self-cleaning igniter spark tip reliably ignites fuels regardless of accumulated hardened oil and debris on the tip. Three stage ignition and internal mix technology allow for consistent operation, which overcomes problems associated with external mix that are ambient temperature dependent. GHE igniters are the ideal choice for high energy output and reliable ignition.

Features

GHE gas igniter system consists of a custom length igniter system, power pack and interconnecting HT cable.

Multi stage ignition and stainless steel pilot nozzle.

Self cleaning spark tip will work with accumulated hardened oil and other debris accumulated on tip.

GHE1-3 has flanged connection and GHE2-5 has quick disconnect or flanged connection.

Quick disconnect for HT line.

Optional NEMA 12, 4, or 4X cabinet available for power pack.

Power pack is available in 110 or 220 VAC input.

Optional optical flame monitoring.

Specifications

Power pack: 100 to 130 VAC and 210 - 250 VAC, 50-60 Hz, 80 VA.

Output: 2,000 VDC, 12 joule pulses at 180-240 sparks per minute.

Minimum insertion length 19" (483 mm).

Models

Part Number	Description
GHE1-3	Igniter used with gas fuels. 1-3 MMBTU/HR capacity. 1-7/8" diameter.
GHE2-5	Igniter used with gas fuels. 2-5 MMBTU/HR capacity. 2-7/8" diameter.
Contact Honeywell sales representative for ordering.	

FlameTools

Remote configuration, monitoring, and diagnostics. Anywhere. Anytime.



The Honeywell FlameTools PC monitoring software and touchscreen display enables remote configuration, monitoring, and diagnostics for multiple signal processors, up to 32 loops for HMI and 248 loops for PC. FlameTools makes managing your system simpler and more convenient from anywhere, anytime.

Features

- Real time flame and temperature monitoring and logging for maximum efficiency.
- Configuration and monitoring modes.
- Remote access to system for increased flexibility.
- Touchscreen version allows for easy set up and operation.
- Multiple loops display.
- Password protected for system security.
- Save configuration on external memory device.
- Export and save data to Excel for analysis and trending.
- PC version allows exporting of graphical chart.
- HMI and PC versions are user configurable.
- Touchscreen version eliminates need for a converter (PC version includes RS232 converter cable).

Models

Part Number	Description
FlameTools-PC	PC monitoring software
FlameTools-HMI/U	Panel mount touchscreen display
Compatible with U2 and 700, P522, P531 and P532 signal processors.	

Engineered Systems Group

Complete combustion solutions for a world of applications.



Honeywell Industrial Flame Monitoring can be incorporated into a combustion system designed by the Honeywell Engineered Systems Group (ESG), saving engineering time and expense, while ensuring compliance to local codes and standards worldwide.

Each standard or custom-built engineered system – encompassing a combination of control panels, burners, burner management systems, IFM, control valves, and safety systems – will provide an energy-saving, low emission, plug-and-play solution for the ultimate in process control.

Benefits

- Standard or custom-built options.
- Trouble-free operation in professionally-built packages.
- Save time and engineering expenses.
- Ensure compliance for your installation to local codes and standards.
- Reduce commissioning time and get your processes running faster.
- Confidence in performance.
- Ease of installation.

Key Component Integration

- | | |
|----------------------------|------------------------|
| Fuel skids and pipe trains | Safety shut-off valves |
| Control panels | Combustion chambers |
| Low temperature burners | Flame controllers |
| High temperature burners | Flame safe-guard |
| Line and duct burners | Flame monitoring |
| Control valves | |



Honeywell Industrial Flame Monitoring Compatibility Chart



700ACSP

700DCSP

P522AC

P522DC

P531AC

P531DC

P532AC

P532DC

S702	•	•			•	•	•	•
S702PF	•	•			•	•	•	•
S706	•	•			•	•	•	•
S706PF	•	•			•	•	•	•
S802	•	•			•	•	•	•
S806	•	•			•	•	•	•
S550BE			•	•	•	•	•	•
S550BE-PF			•	•	•	•	•	•
S552BE			•	•	•	•	•	•
S552BE-PF			•	•	•	•	•	•
S556BE			•	•	•	•	•	•
S556BE-PF			•	•	•	•	•	•
WATCHDOGIII								
Ionization Rod								
FlameTools-PC	•	•	•	•	•	•	•	•
FlameTools-HMI/U	•	•	•	•	•	•	•	•



U2 The U2 Series is an all-in-one integrated processor and viewing head system which is uniquely suited for single or multi-burner, multi-fuel and difficult flame detection applications where a high level discrimination is required. Multiple sensor options provide a wider range of selection to meet difficult flame monitoring applications.



P222

600U

Fiber Optic System

700ACC

800ACC

ACC55XBE

Sensor Type

Application

P222	600U	Fiber Optic System	700ACC	800ACC	ACC55XBE	Sensor Type	Application
		●	●			IR	Suitable for oil
		●	●			IR	Suitable for oil
		●	●			UVTron	Suitable for clean gaseous fuel
		●	●			UVTron	Suitable for clean gaseous fuel
		●		●		IR	Suitable for oil
		●		●		UVTron	Suitable for clean gaseous fuel
		●			●	IR+UV	Suitable for all fuels
		●			●	IR+UV	Suitable for all fuels
		●			●	IR	Suitable for oil and coal
		●			●	IR	Suitable for oil and coal
		●			●	UVTron	Suitable for clean gaseous fuel
		●			●	UVTron	Suitable for clean gaseous fuel
●							Flare stack monitoring system
	●						Flame rod system for use with ignition transformer or coil
							PC software for remote configuration and monitoring
							Touchscreen display for remote configuration and monitoring

1. For all AC models, voltage range is 85-264V, 50/60 Hz plus backup 24VDC input permitted.
2. For all DC models, input voltage 24VDC plus backup 24VDC input permitted.
3. For current approvals and additional models please visit customer.honeywell.com.
4. All models listed above, except WatchdogIII and 600U, are fit for use in SIL 3 applications.

Honeywell Industrial Flame Monitoring Accessories

Part Number	Description	Product Details	Where to Use
700-1	1" NPT pipe mount	1" NPT pipe connection with swivel mount to 1/2" NPT viewing head connection. Swivel mount must be locked to prevent inadvertent movement.	Use when burner is equipped with 1" NPTM sight pipe.
700-2	Swivel mount	Two-bolt base mounting with swivel mount. Viewing head connection is 1/2" NPTM. Use where line of sight adjustments are required.	Use with all S70X and S80X viewing heads.
700-3	1/2" NPT pipe mount	1/2" NPT pipe connection with swivel mount to 1/2" NPTM viewing head connection. Use with all S70X and S80X viewing heads.	Use when burner is equipped with 1/2" NPTM sight pipe.
700ACC	Cooling jacket	Cooling air jacket for S70X and S70X-PF series viewing heads. Order with Vortex cooler M3204, M3028, or M3210.	Use when ambient temperature is higher than 85°C (185°F). 90 PSIG air is required.
700DA	1/2" NPT adapter	1/2" NPTF with 1/4" purge connection used with S70X viewing heads.	Use for 1/2" NPT connection to swivel mount or threaded 1/2" pipe.
700DA-1	1" NPT adapter	1" NPTF with 1/4" purge connection used with S70X viewing heads.	Use for 1" NPT connection to swivel mount or threaded 1" pipe.
700RAA	Right angle adapter	1/2" NPTF right angle viewing head adapter to 1/2" NPTM.	Use where space is limited (under the furnace).
700UA	1/2" NPT adapter	ULTherm heat insulator with 1/2" NPTF mounting and 1/4" purge connection.	Use when ambient temperature is higher than 85°C (185°F).
800ACC	Cooling jacket	Cooling air jacket for S80X and S80X-PF series viewing head. Order with Vortex cooler M3204, M3028, or M3210.	Use when ambient temperature is higher than 85°C (185°F). 90 PSIG air is required.
800ACC-RING	Adapter ring	Adapter ring to fit S80X viewing head to 700ACC cooling jacket.	Use with S80X viewing heads.
800DA	1/2" NPT adapter	1/2" NPTF with 1/4" purge connection used with S80X viewing heads.	Use for 1/2" NPT connection to swivel mount or threaded 1/2" pipe.
ASY55XBE	50 ft. cable assembly	Factory molded cable for S55XBE; 50 feet (15 m) long, 4 conductors, overall foil shield and drain wire.	Use with S55XBE viewing heads.
ASY55XBE-200	200 ft. cable assembly	Factory molded cable for S55XBE; 200 feet (60 m) long, 4 conductors, overall foil shield and drain wire.	Use with S55XBE viewing heads.
ASY785	50 ft. cable assembly	Factory molded cable 50 feet (15 m) long without LEDs.	Use with S70X and S80X viewing heads.
ASY785-200	200 ft. cable assembly	Factory molded cable 200 feet (60 m) long without LEDs.	Use with S70X and S80X viewing heads.
ASY786	Connector	Field cable side connector with two LEDs for S70X and S80X.	Use with S70X and S80X viewing heads.
C12S	12 conductor cable	Field extension cable for U2; 12 conductors, 10 used.	Use with U2 series all-in-one viewing head/processor.
C330S	Scanner cable	4-conductor viewing head to processor interconnecting cable with foil and drain wire.	Use with S70X, S80X, and S55XBE viewing heads.
DSP3992/U	P5XX demo kit	Demonstration kit including P532DC, P522DC, S550BE, and cable with 24VDC converter.	Use for sales demo.
DSP3993/U	Watchdog demo kit	Demonstration kit including P222DC, S256, and cable with 24VDC converter for flare monitoring system - WATCHDOGIII.	Use for sales demo.
DSP3994/U	U2 demo kit	U2 and cable with 24VDC converter.	Use for sales demo.
DSP3995/U	Accessory demo kit	Demonstration kit includes accessories ISO-unit and M701-2SS.	Use for sales demo.

Part Number	Description	Product Details	Where to Use
FASA-GLASS	Glass fiber optics	Custom built to length and accessories. Suitable for oil and coal, focal lens assembly.	Contact your local sales representative to provide quotation for your application.
FASA-QUARTZ	Quartz fiber optics	Custom built to length and accessories. Suitable for gas, oil and coal, focal lens assembly.	Contact your local sales representative to provide quotation for your application.
ISO-UNITHPGT	Sealing union	Isolation unit for high back pressure application. Stainless steel body, quartz lens. 1" NPTF connection at both ends with 1/2" NPTF for purge connection.	Maximum back pressure 500 PSI (3450 KPA) and maximum temperature of 400°F (204°C).
M3204	Vortex air cooler	Use in conjunction with cooling jacket for S70X and S55XBE. 275Btu/hr (69 kcal/hr) 4 SCFM (113 SLPM).	Use with cooling jacket.
M3208	Vortex air cooler	Use in conjunction with cooling jacket for S70X and S55XBE. 550Btu/hr (139 kcal/hr) 8 SCFM (227 SLPM).	Use with cooling jacket.
M3210	Vortex air cooler	Use in conjunction with cooling jacket for S70X and S55XBE. 650Btu/hr (164 kcal/hr) 10 SCFM (283SLPM).	Use with cooling jacket.
M-701-1	2" NPT pipe mount	2" NPT pipe slip-on to 1" NPT connection.	Use when burner is provided with 2" slip-on pipe.
M-701-2	2" NPT pipe mount	2" NPTF pipe-mounted swivel mount assembly to 1" NPTF 3-1/2" diameter and 2-3/8" deep.	Use when burner is provided with 2" threaded pipe.
M-701-2-FLG	2" flange mount	2" flange mount with multiple mounting holes to 1" NPTF.	Windbox mounted.
M-701-2-SS	2" NPT pipe mount	2" NPTF stainless steel pipe swivel mount assembly to 1" NPTF 3-1/2" diameter and 2-3/8" deep.	Use when burner is provided with 2" unthreaded pipe.
M-701-3	3 bolt swivel mount	4-1/2" diameter, 3-bolt swivel mount assembly. 3 mounting holes. 1" NPTF connection to viewing head side.	Windbox mounted.
M-701-3P	3" NPT pipe mount	3" threaded pipe connection with swivel mount to 1" NPTF to viewing head.	Used commonly in coal-fired power plants.
M-701-4	2 bolt swivel mount	4", 2-bolt windbox or burner front mounted swivel mount to 1" NPTF for viewing head connection.	Windbox mounted.
M-702-6	Orifice set	Set of orifices to reduce signal level.	Use with all viewing heads.
R-518-12	Insulating nipple	1" NPT M/M both side heat and electrical insulating nipple.	Use with all 1" NPT connection.
R-518-13	Insulating nipple	1/2" NPT M/M both side heat and electrical insulating nipple.	Use with all 1/2" NPT connection.
R-518-CL12-HTG	Locking coupler	1" NPT locking coupler for disconnect of viewing head for S55XBE and S70X with DA-1.	Use with R-518-PT12, R-518-PT12L.
R-518-CL12-PG	Locking coupler	1" NPT locking coupler with purge connection for use with all viewing heads with 1" NPT connection.	Use with R-518-PT12, R-518-PT12L.
R-518-CL13-HTG	Locking coupler	1/2" NPT locking coupler for disconnect of viewing heads with 1/2" connection.	Use with R-518-PT13, R-518-PT13L.
R-518-PT12	Locking coupler	1" NPT ULTEM insulating locking coupler adapter.	Use with R-518-CL12-HTG, R-518-CL12-PG.
R-518-PT12L	Locking coupler	1" NPT ULTEM insulating locking coupler adapter.	Use with R-518-CL12-HTG, R-518-CL12-PG.
R-518-PT13	Locking coupler	1/2" NPT ULTEM insulating locking coupler adapter.	Use with R-518-CL13-HTG.
R-518-PT13L	Locking coupler	1/2" NPT ULTEM insulating locking coupler adapter.	Use with R-518-CL13-HTG.
R-518-11	Cable connector	Cable side connector for S55XBE for use with C330S cable.	Use with S55XBE viewing heads and C330S cable.

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