

Pro100 Mini™

Early Warning Aspirating Fire Detector

- Up to 10,000 sqft.
- Single Zone
- Localized Applications

PRO Series™

Cut Sheet

Part Number: 6198604

Features

- Area detection up to 10,000 sqft.
- Ideal for in-cabinet or localized detection
- Will not false alarm from dirt or dust
- Four adjustable alarm levels
- Built-In networking functions
- Four programmable inputs
- Single point maintenance
- 128 event alarm and fault log
- Automatically change sensitivity three times per day
- No airflow filters required
- Historic particle data graph for event analysis
- Drop-In replacement to upgrade similar systems

Description

Very Early Warning Fire Detection (VEWFD) air sampling detectors using advanced Cloud Chamber Detection (CCD) technology. CCD technology allows ProSeries detectors to only sense combustion thereby making them immune to false alarms from dirt, dust, temperature and humidity. Any detector in the ProSeries class can alert personnel of an impending fire threat during the true incipient stage of a fire, long before any smoke.

The **Pro100 Mini** is designed for smaller areas up to 10,000 sqft., localized applications, or in-cabinet detection with total sample pipe runs up to 325 ft. A 3/4" ID BlazeMaster™ pipe network is used to draw air samples from the protected hazard back to the detector for analysis.

Reset and Silence buttons, as well as LED indicators for Pre-Alarm, Fire 1, Fire 2, Fire 3, Fault and Power are used for operation and annunciation. Troubleshooting may be done via the LED fault diagnostic feature, an RS232 connection to a computer running CirrusPro Software, a unit display set up as the network hub, or a ProRemote Display.

The standard sample pipe network of the **Pro100 Mini** allows it to also be used as a drop in replacement to upgrade similar air sampling systems.



Applications

ProSeries detectors may be used in virtually any type of application or environment, from churches and museums, to high tech data centers and cleanrooms. ProSeries detectors should be used when true incipient detection is needed and downtime, false alarms, loss of data or business interruption cannot be tolerated.

CCD Technology

CCD is the combination of new microprocessor controlled electronics, dynamic high power optics and complex algorithms implemented into an already proven and reliable method of early warning fire detection. These advancements in air sampling technology have set a new benchmark by offering better detection with more features at a lower cost.

Detecting the invisible particulate (.0025µm) created by thermal degradation, during the true incipient or overheating stage of a fire, provides the absolute earliest warning possible of an impending fire threat. Unlike other early warning air sampling detectors which rely on smoke obscuration, CCD analyzes the air sample for combustion particulate that are well below the wavelength of light, invisible, and weightless. CCD based detection is immune to false alarms from temperature, humidity, dirt, dust and other airborne contaminants.

CCD advancements in the new ProSeries line of detectors allow each alarm level to be set to the sensitivities of a normal spot, laser, or cloud chamber detector. This provides full spectrum sensitivity from 0.0000% - 100% obs/ft.

Networking and Communication

Built-In Peer to Peer RS485 Networking

No additional hardware or software is required, simply network the units together using the internal RS485 connections. A Remote Display, or unit with a display, may be used to program, view, display historic graph and event logs, troubleshoot, and provide alarm notification for any unit on the network.

Networking Software for PC

Available at no cost, CirrusPro Networking Software will allow you to program, view, display historic graph and event logs, or troubleshoot any detector on the network via a PC. Simply connect a PC to any unit on the Peer to Peer network.

Ethernet TCP/IP Cirrus ProNet Software

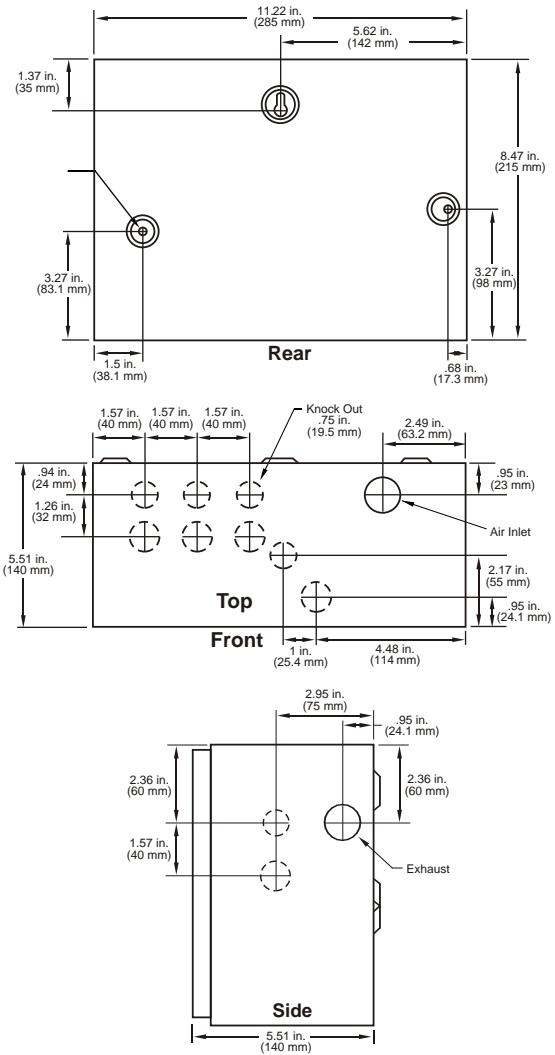
Remotely monitor a network via the internet for detector status, alarm notification, and zone identification. Detailed graphic displays of the area are used to isolate alarms and display specific zone information. You may also program, view, display historic graphs and event logs, and troubleshoot any detector on the network.

For networking details, please refer to the ProSeries Networking Cut Sheet.

Specifications - Pro100 Mini Part #: 6198604

Current Draw:	295mA @ 24VDC (24VDC 90% Fan Speed)
Dimensions:	11.22" x 8.47" x 5.51"
Weight:	8.8 lbs (4 kg)
Operating Temperatures:	Cabinet: 32°F to 100°F (0°C to 38°C) Air Sample: -100°F to 400°F (-73°C to 204°C)
Humidity Range:	10-95% non-condensing
Area of Detection:	10,000 sqft. max.
Number of Zones:	1
Number of Sample Pipes:	1
Pipe ID:	3/4" - 1" (19 to 25mm)
Maximum Pipe Length*:	Up to 325' or as determined by flow calcs
Number of Sample Holes*:	Up to 50 per detector
Area of Protection Per Hole:	30' x 30' maximum (refer to NFPA 72)
Maximum Ceiling Height:	115'
Alarm Levels:	4 - Adjustable • PreAlarm (Alert) • Alarm 1 (Action) • Alarm 2 (Fire 1) • Alarm 3 (Fire 2)
Sensitivity Range:	0.0000 to 100% obs/ft
Sensitivity Settings:	10 per alarm level (Four Alarm Levels) • Programmable to change three times per day, and different for each day of the week
Alarm Contacts:	4 Total, 1A @ 30VDC
Fault Contact:	1 Total, 1A @ 30VDC
Inputs:	4 Programmable
Programmable Input Options:	AC Power Fail, Battery Fail, Reset, Isolate, Disable, External Fault, Automatic Gain Adjust
Power Supply:	UPS-24S or UPS-24L (See UPS-24 cut sheets)
Event Log:	128 events stored on FIFO basis

Details - Pro100 Mini



Standard Aspirating Pipe Network

A standard aspirating system uses 3/4" BlazeMaster™ pipe and fittings. Please refer to the ProSeries Pipe and Fitting cut sheet for details.

Rating:	Plenum
OD.:	1.05"
ID.:	0.874"
Wall Thickness:	0.088"
Weight:	16.8 lbs./100'
Flammability:	V-2, NFPA 90A
Polyethylene Classification:	Type 1, Class C, Category 4

Note: Please refer to all federal, state and local codes, and manufacturer's recommendations prior to design or installation.

*All systems must meet NFPA requirements and be designed using the manufacturer's calculation software.



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