

ABB Safety

Fire & Gas Application Solution

ABB presents an application solution for Fire & Gas protection systems. After 20 years of installing equipment and systems to protect facilities from fires & gas leaks, ABB provides a simpler, less expensive and more productive way to engineer and configure world class protection for your plant.

The solution consists of a package of various software items designed to simplify the process of engineering and configuration when designing a fire and gas system. The package includes logical function blocks, configurable operator displays and dialogs, specific alarm and event messages, and extensive documentation. It provides unified information handling for both DCS, ESD and F&G. Event and alarm handling, bypass management and on-line diagnostics provide the operator with vital information to secure correct and immediate actions when necessary.

By implementing an addressable fire and gas system instead of a conventional one, cost savings can be considerable. According to studies by ABB, addressable systems become more profitable when the number of I/O exceeds 120-130.

The higher the number of I/O, the more profitable the addressable systems become. If the system has 400 I/O, savings will reach higher than 30%, not counting wiring, which will reduce cost even more.



The Fire & Gas Application Solution itself will make it simpler, faster and less expensive to engineer and configure a fire and gas protection system. It will save staff hours, and reduce engineering time considerably. The application solution is available to ABB offices for purchase via ABB's Lotus Notes system.

An enhanced fire & gas

The addition of these functions to an addressable fire and gas system will enhance the functionality, increase the safety, and ease the engineering process considerably. On-line Diagnostics and Bypass Management are functions included in the safety-specific functionality of the Advant Operator Workplace, both of which relate closely to the Application Solution

Operator Interface

The Fire & Gas Application Solution provides a set of easily configured operator station displays and dialogs. The display elements have three levels, Site overview displays, Module displays, and Fire area displays, providing a complete and detailed presentation of the site and every single detector installed.



On-line Diagnostics

Each safety controller in the Advant Safeguard system issues detailed messages about safety-related information and problems. These are commonly viewed in the operator station. The high level of diagnostics is essential for the integrity of the fire and gas system.



Bypass Management

Override/bypass functions in safety related equipment can be dangerous, but such overrides are essential for the maintenance of the system. The Bypass Management function in the Advant Safeguard system allows control of access to operator stations and engineering software, as well as operator control and reset of each individual override in the field.



solution from ABB

Function Block Library

Included in the F&G Application Solution is a comprehensive library of function blocks, used to program the logic of the application. The library has been designed to cover any object that might be a part of a fire and gas system. Also included is a fully configured default system, which can be used as a starting point to reduce engineering cost.



Alarm Management

As a standard part of the Advant Safeguard system, Alarm and Event messages are stored and presented in chronological lists. The Fire & Gas Application Solution provides additional messages related specifically to Fire & Gas systems.

User Manual Functional Description Installation Guidelines

These manuals provide a comprehensive, detailed overview of the Fire & Gas Application Solution from three different aspects. In concert, they cover every issue that might present itself when designing and operating a Fire & Gas Application from ABB.



ABB, 20 years of experience in Safety installations



Over the past 20 years, ABB has installed Fire & Gas protection equipment in a variety of facilities all over the world. The Fire & Gas Application Solution is a direct result of this experience.

Order & delivery

The Fire & Gas Application Solution can be ordered and downloaded by ABB companies via ABB's Lotus Notes-system, using the ABB Safety Support database. It can also be ordered and delivered from ABB Industri AS in Oslo, Norway, in which case the buyer will receive the product in less than one week. The relevant addresses and telephone numbers are listed below.

The Fire & Gas Application Solution is managed by ABB Industri AS in Oslo, Norway.
For questions, or more information,
please write to
safety@noina.abb.no
or visit
<http://www.abb.no/safety>.



Main offices for ABB Safety:

ABB Industri AS
Safety Systems Division
Hasleveien 50
PO Box 6540 Rodeløkka
0501 Oslo
Norway
Tel: + 47 22 87 20 00
Fax: + 47 22 87 22 87

ABB August Ltd
Manor Royal
Crawley
West Sussex
RH10 2PY
United Kingdom
Tel: + 44 1293 442135
Fax: + 44 1293 442149

ABB August Inc
1880 Dairy Ashford
Suite 110
Houston
Texas 77077
U.S.A.
Tel: + 1 281 497 3333
Fax: + 1 281 497 7316

ABB Industry Pte Ltd
ABB August Safety Division
10 Ang Mo Kio Street 65 #05-13
Techpoint
Singapore 569059
Republic of Singapore
Tel: + 65 323 7433
Fax: + 65 323 7422