

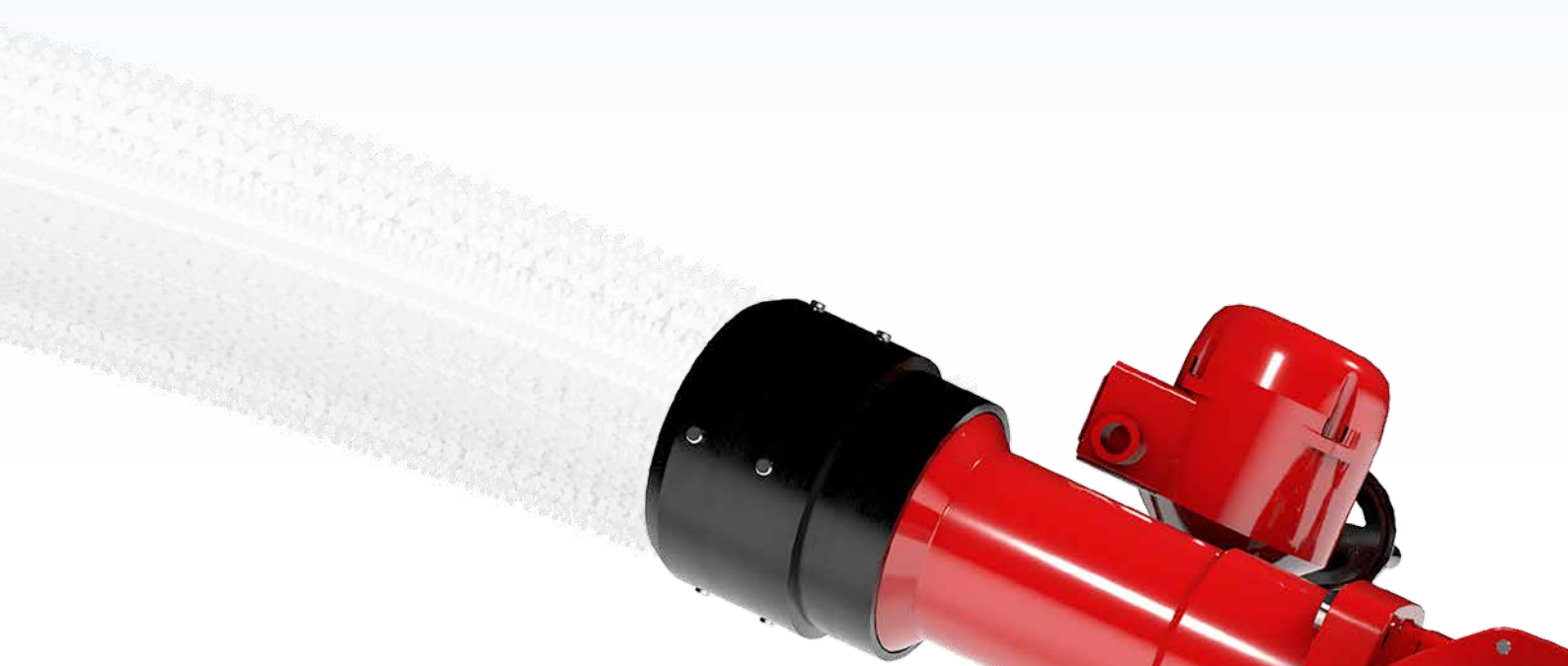
■ **MONITORS**
FOR FIREFIGHTING



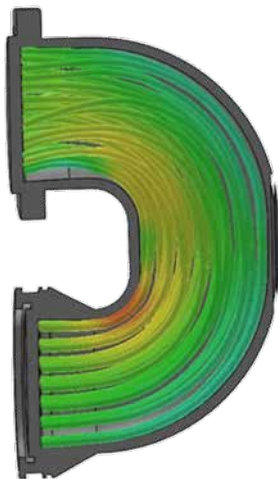
■ MORE POWER TO YOUR ELBOW: OPTIMIZED FLOW PATTERN, MAXIMUM REACH

FireDos monitors are fit for firefighting with water or foam and deliver thousands of liters of water per minute, reaching 150 meters and more.

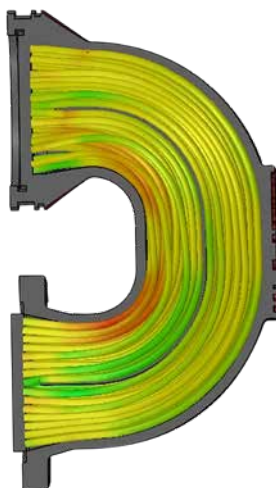
The innovative, flow-optimized 'Oval Flat Design' ensures minimum pressure loss, enabling maximum throw & reach for the monitors.



Standard shape:



Oval Flat Design:



Low flow speed



High flow speed



- 1 Nozzle
- 2 Pivot mounting
- 3 Elbow in flow-optimized, octagonal 'Oval Flat Design'
- 4 Electrical drives
- 5 Hand wheels for emergency operation

The comparison is clear: The 'Oval Flat Design' significantly optimizes the flow leading to a more consistent flow pattern.

■ POWERFUL IN USE, CONVENIENT AND FLEXIBLE OPERATION

■ FOR HIGH FLOW RATES, IN A COMPACT DESIGN

FireDos monitors are designed to handle flow rates from 150 l/min to 60 000 l/min and can be controlled both manually and electrically. Depending on the type of application, various sizes are available – always with compact dimensions and a low design height.

■ FLEXIBILITY WHEN IT MATTERS

Thanks to the design, operating the monitors requires minimal effort. Ensuring maximum flexibility when in use, the AMPN multi-purpose nozzle allows adjustment of the extinguishing agent flow rate during operation and full pressure.

The reach calculator on our webpage shows you the reach and height of the extinguishing agent jet as well as the resulting reaction force according to your individual input.

More information: [firedos.com/monitors](https://www.firedos.com/monitors)



INPUT PARAMETERS

MONITOR TYPE

M4

Monitor with a maximum flow rate of up to 8000 l/min. Manual or electrical adjustment is possible.

NOZZLE TYPE

MPN

Multi-purpose nozzle for discharge of water or low-expansion foam premix. Stepless adjustment between hollow jet and full jet is possible.

FLOW RATE

8000 l/min

PRESSURE

10 bar

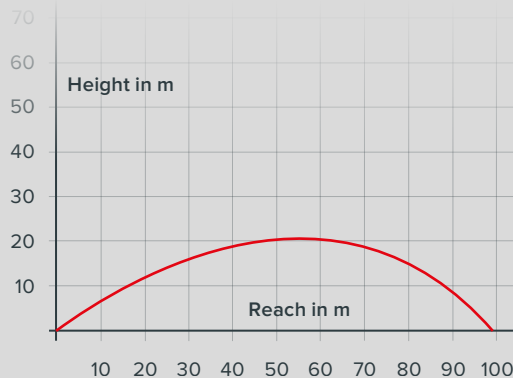
ANGLE

30°

MEDIUM

Water

Foam



REACH

99 m

REACTION FORCE

6 kN

THROWING HEIGHT

20 m

■ SECURITY FOR YOUR FIRE EXTINGUISHING SYSTEM

Powerful performance, long service life, convenient and flexible operation:
Play it safe with FireDos monitors.



A safe investment

Besides robust and reliable performance, FireDos monitors are sturdy and designed-to-last for all environmental conditions.



Easy operation and integration

The electrical control system is convenient to operate and facilitates easy integration into existing control systems, for error-free installation.



Flexible in use

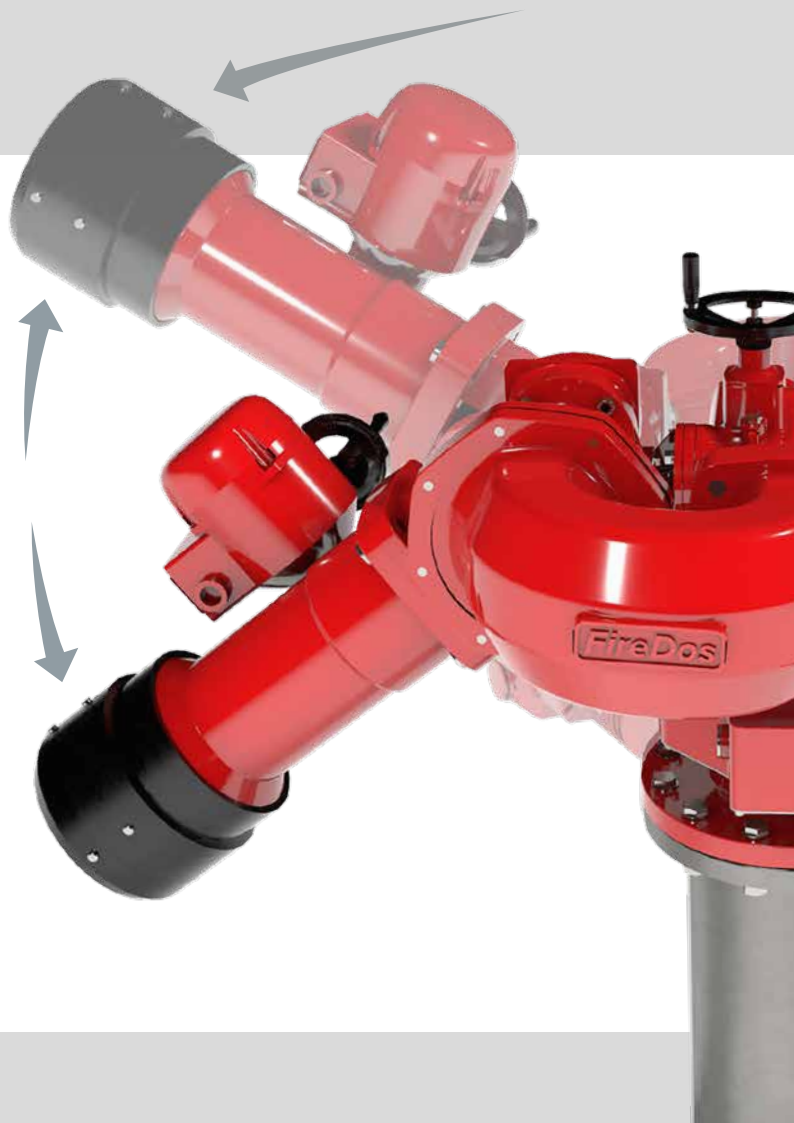
FireDos monitors have a wide swiveling range and the extinguishing agent flow rate can be adjusted during operation.

■ WIDE SWIVELING RANGES

Depending on the equipment version, the following maximum swiveling ranges are available:

- Horizontal (left/right): 360° (350° at DC drives)
- Vertical (up/down): +/-90°, depending on the selected version

Both swiveling axes (horizontal and vertical) have self-locking gears. No external force, occurring e.g. when opening the water flow or at varying flow rates, can move the monitor.



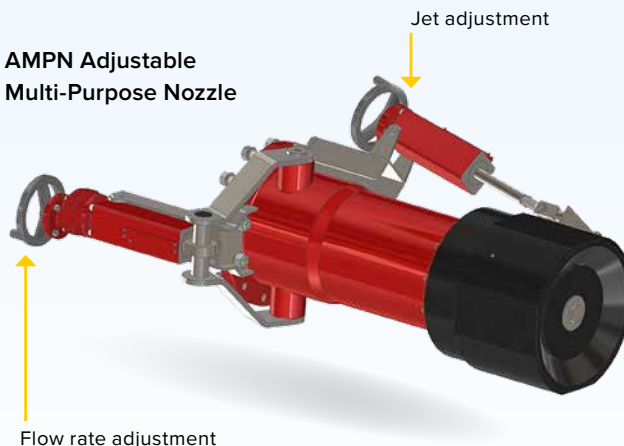
■ STURDY AND LONG-LASTING

The media-exposed components are designed for working pressures up to 16 bar, with lubricated-for-life bearings. Reduced friction resistance seals guarantee ease of movement even after long down-times. The aluminium alloy castings are manufactured from marine grade, seawater-resistant aluminum alloy with an extra hard coating. ATEX versions for use in explosive areas are available.

■ ADJUSTABLE FLOW RATE

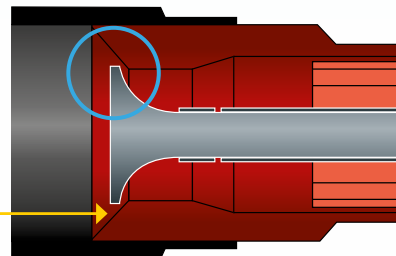
All type series are available with nozzles and foam pipes allowing flow rate adjustment even during operation and at full pressure.

AMPN Adjustable Multi-Purpose Nozzle

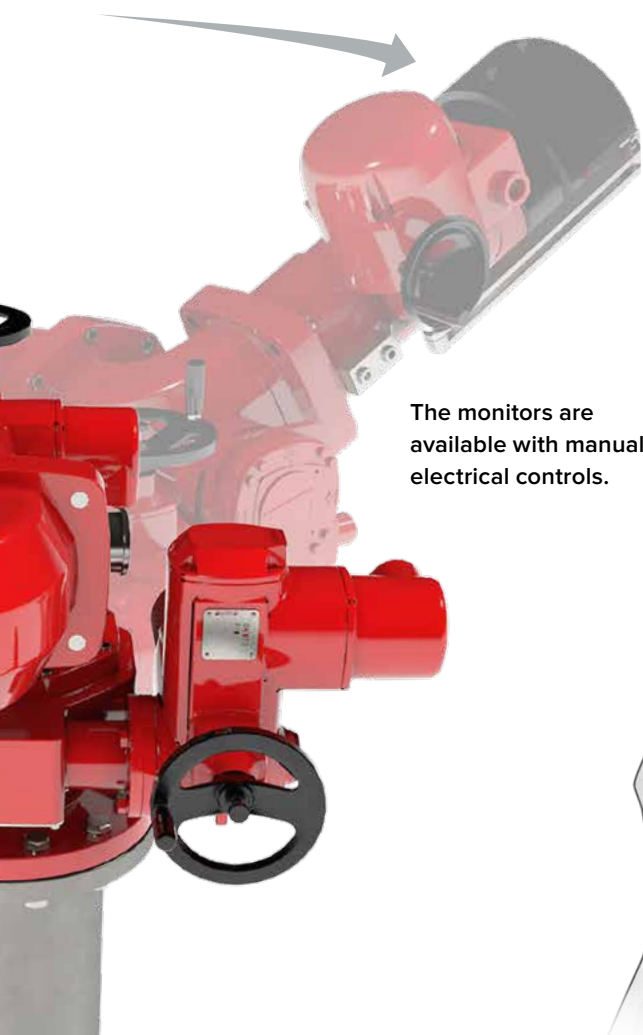
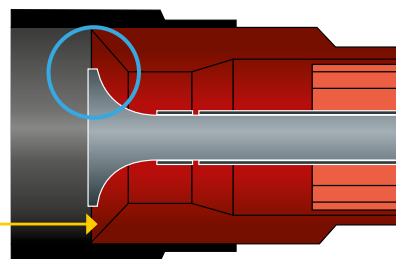


AMPN nozzle cross section

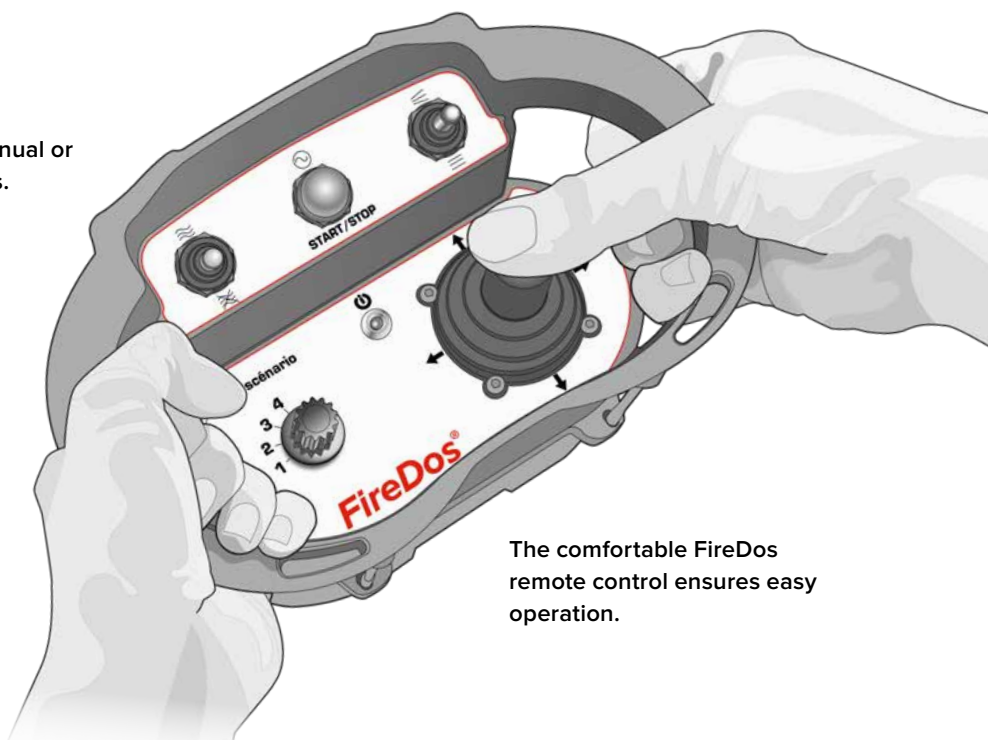
Small opening
> low water flow rate



Large opening
> high water flow rate



The monitors are available with manual or electrical controls.



The comfortable FireDos remote control ensures easy operation.

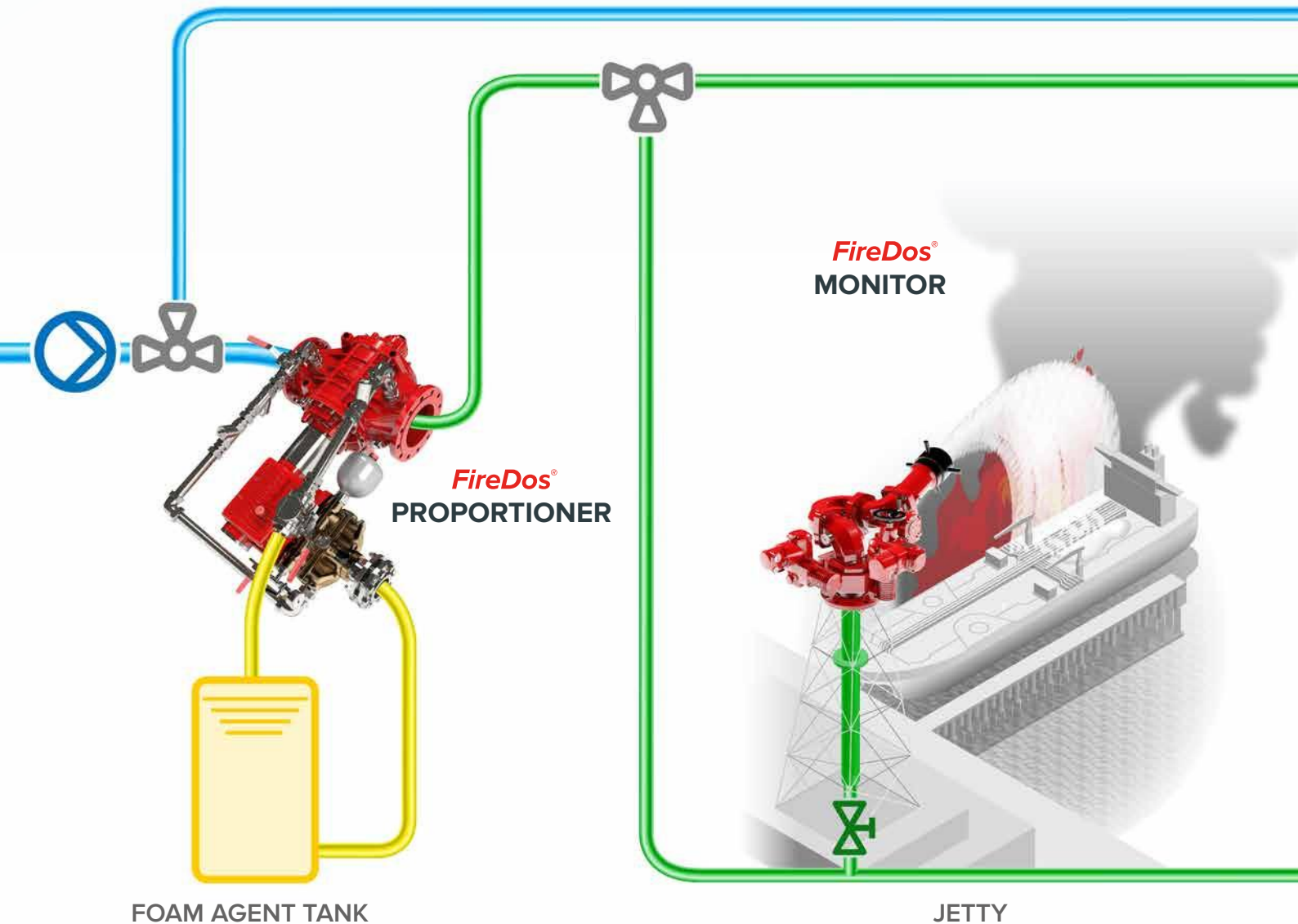
■ OUR MONITORS IN ACTION

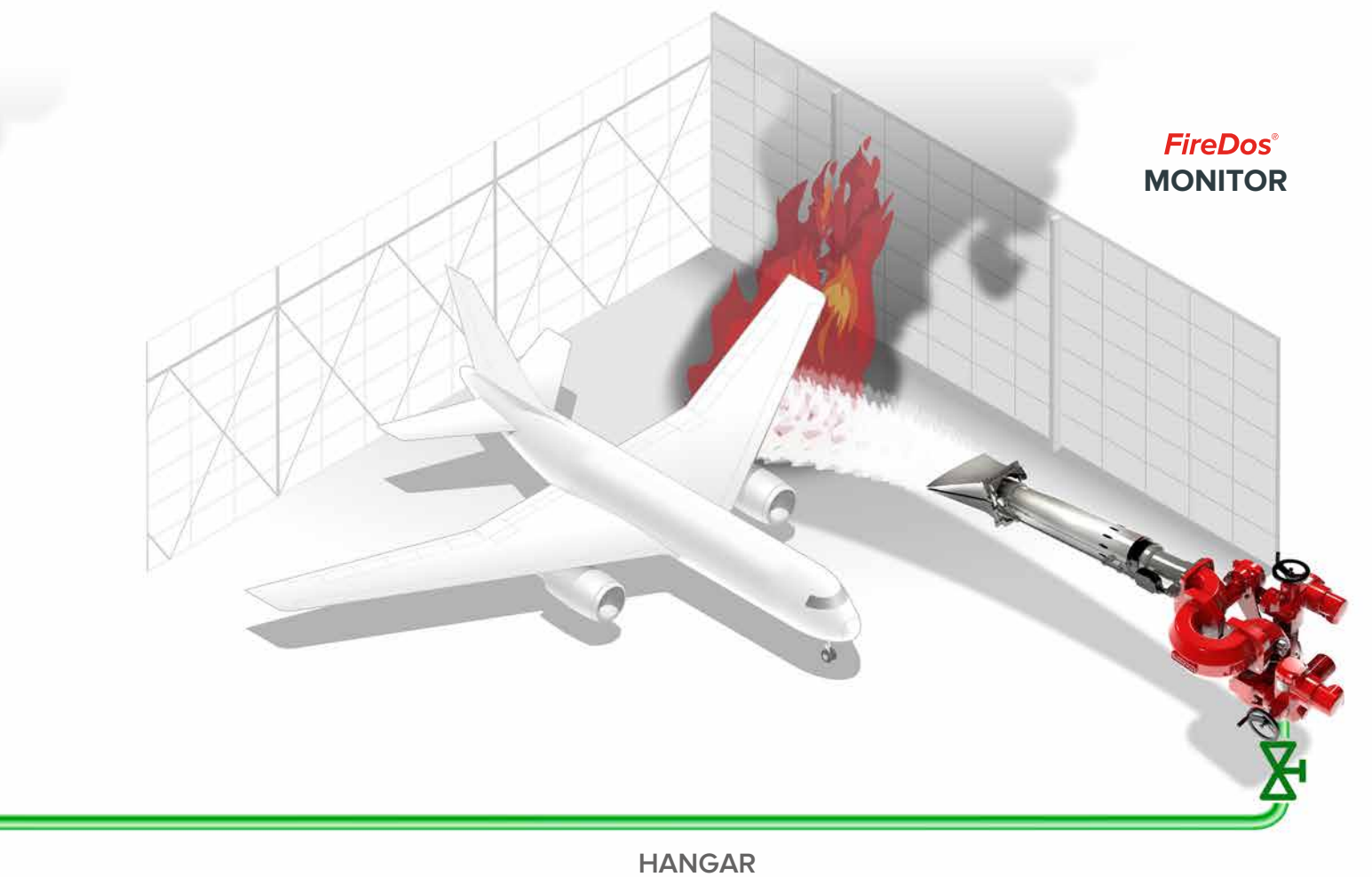
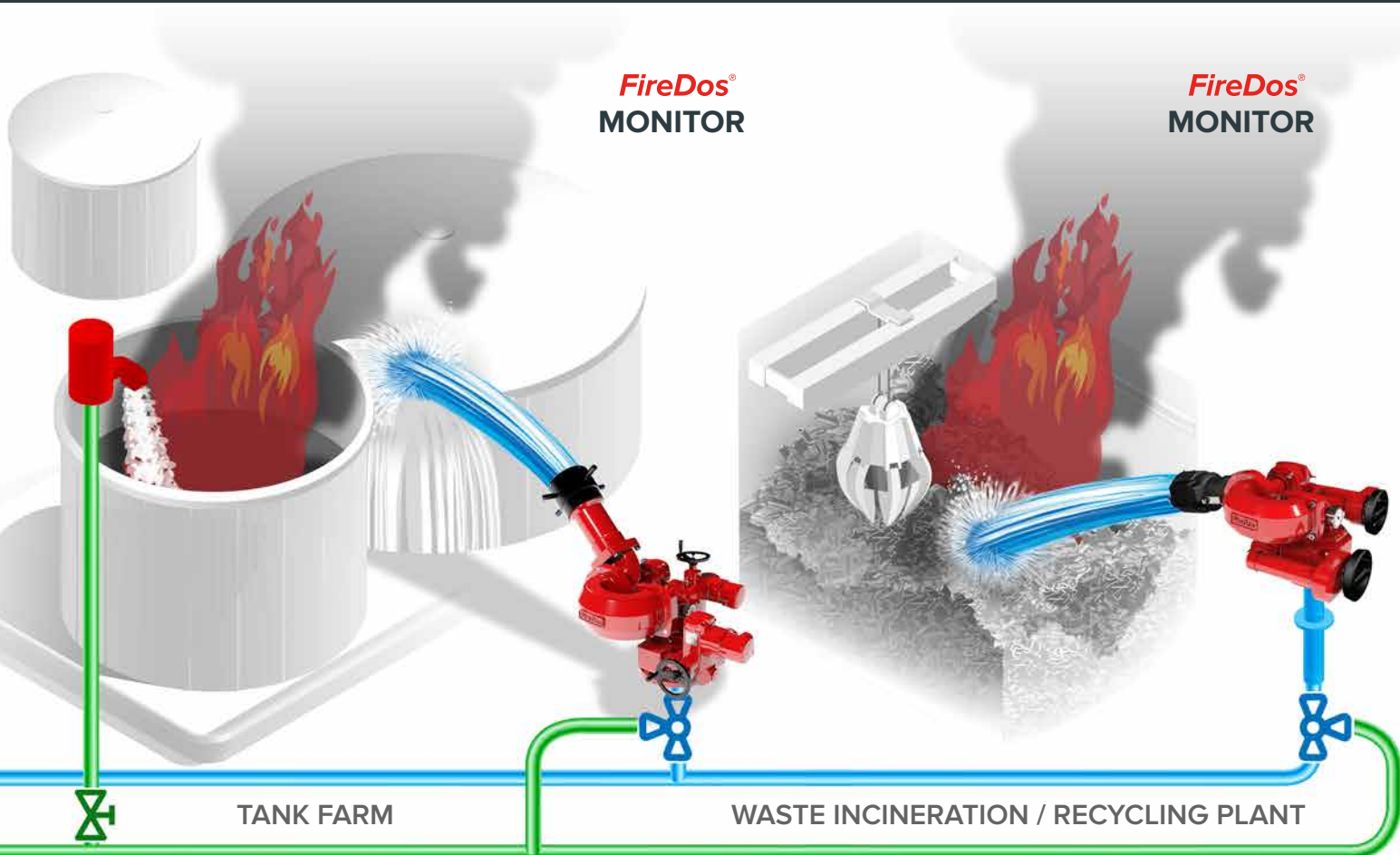
FireDos monitors are used wherever extinguishing agents for fire class A and B are applied, outdoors and indoors. Typical fields of application include tank farms, waste incineration plants, jetties and aircraft hangars.



FIREDOS SERVICE: ALWAYS HERE FOR YOU!

We offer you comprehensive service – from planning to commissioning and maintenance. No matter which project phase you are in, we won't let you down. Our personnel is on site in no time, worldwide.





■ THE NOZZLE SHAPES THE JET.

The monitor's nozzle is of special importance when using monitors for firefighting as it is the nozzle that shapes the jet. No matter if water or foam, manual or electrical controls – we have the perfect nozzle for your monitor application.

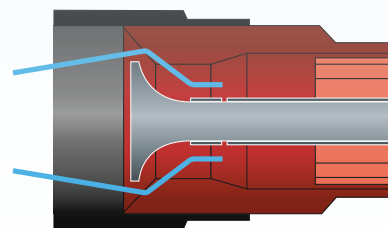
■ MPN / AMPN MULTI-PURPOSE NOZZLES

The versatile multi-purpose nozzles allow discharge of water or low-expansion foam premix. In addition, stepless adjustment between hollow jet and spray jet is possible.

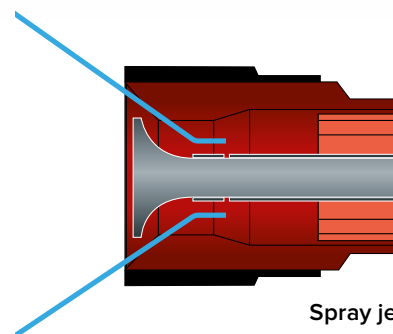
Some fire scenarios require an adjustable extinguishing agent flow. The AMPN multi-purpose nozzle enables a change in the flow rate – during operation.

The models M1 - M4 offer the option of equipping both nozzles with a flat spray pattern. This produces a wide, fan-shaped spray pattern that makes it possible to extinguish large areas more quickly and effectively, for example when fighting forest and brush fires.

- Discharge of water or foam
- Hollow jet and spray jet with changing spraying angle.
- Adjustable extinguishing agent flow rate (25% to 100%)



Hollow jet



Spray jet



Flat jet with a modified spraying angle (special version)

available in sizes M1, M2, M3, and M4

■ RFP FOAM PIPE

The removable foam pipe can be applied as an addition to a multi-purpose nozzle. A typical field of application is the temporary discharge of low-expansion foam. Discharge of pure water is also possible.

- Addition to the multi-purpose nozzles MPN and AMPN
- Discharge of low-expansion foam or water



■ FPD / AFPD FOAM PIPE WITH DEFLECTOR

Foam pipes produce foam with a higher expansion rate. The FPD foam pipe is particularly suitable for the discharge of low-expansion foam. With the deflector in place, a wide jet can be produced for large-surface foam application.



Hollow jet



Deflector open → full jet



Deflector closed → spray jet

As an option, the FPD foam pipe is available as a version for extinguishing agent flow rate adjustment (AFPD).

- Discharge of low-expansion foam
- Wide jet to produce a foam blanket
- Discharge of pure water is possible

NUMEROUS SIZES AND NOZZLES

■ MONITOR AND NOZZLE SELECTION

Depending on the requirements of your application, eight different monitor type series combined with various nozzle types are available.



| Type series | M1 | M2 | M3 | M4 |
|--|------|------|------|------|
| Max. extinguishing agent flow rate in l/min | 2000 | 2500 | 4500 | 8000 |
| Multi-purpose nozzle (MPN) | ✓ | ✓* | ✓* | ✓* |
| Multi-purpose nozzle with adjustable extinguishing agent flow rate (AMPN) | ✓ | ✓ | ✓ | ✓ |
| Removable foam pipe (RFP) | | ✓ | ✓ | ✓ |
| Foam pipe with deflector (FPD) | | ✓ | ✓ | ✓ |
| Foam pipe with deflector and adjustable extinguishing agent flow rate (AFPD) | | ✓ | ✓ | ✓ |
| Flat jet nozzle | ✓ | ✓ | ✓ | ✓ |



| M5 | M7 | M9 | M12 |
|-------|-------|-------|-------|
| 12000 | 24000 | 40000 | 60000 |
| ✓* | ✓ | | |
| ✓ | ✓ | ✓ | ✓ |
| ✓ | ✓ | ✓ | ✓ |
| ✓ | ✓ | | |
| ✓ | ✓ | | |
| | | | |



* Valid for selected product and drive types. See separate datasheet and FM Approval Guide entry.

■ A KEY COMPONENT OF THE AUTOMATED FIRE SUPPRESSION SYSTEM

Our extinguishing monitors can be fitted with functional control units for remote operation in stationary extinguishing systems. Integration into existing thermography (hotspot or fire detection) systems is straightforward. Users benefit from minimal response times and maximum reliability.

■ FOR ALL TYPES OF ELECTRIC DRIVES

Whether direct current, alternating current or three-phase current, regardless of voltage or frequency – we offer control systems for all types of electric drives.

■ PORTABLE AND STATIONARY CONTROL UNITS

Control is carried out via mobile or permanently mounted control panels. Portable radio remote controls and/or wired control panels are available for operation.

■ NUMEROUS CONTROL FUNCTIONS

Remote control of all monitor functions is possible – from moving to the park and working positions, through the oscillation function, to the automatic self-test.

■ CUSTOMISED INTEGRATION OF EXTERNAL SYSTEMS

Our extinguishing monitors process signals from early fire detection and flame detection systems from various manufacturers. They also support signal exchange with higher-level control systems and fire alarm control panels.



- Interfaces for control systems (potential-free contacts) and IR systems (Modbus TCP/IP)
- Modern control elements (touch panel) with visualisation
- Monitoring of control units, sensor monitoring for wire breaks, short circuits and plausibility, as well as system functionality via self-test



■ REMOTE SERVICE

Via the integrated gateway, the FireDos service can access the control system remotely, if required, and following consultation with the customer, to provide support during commissioning and maintenance work.

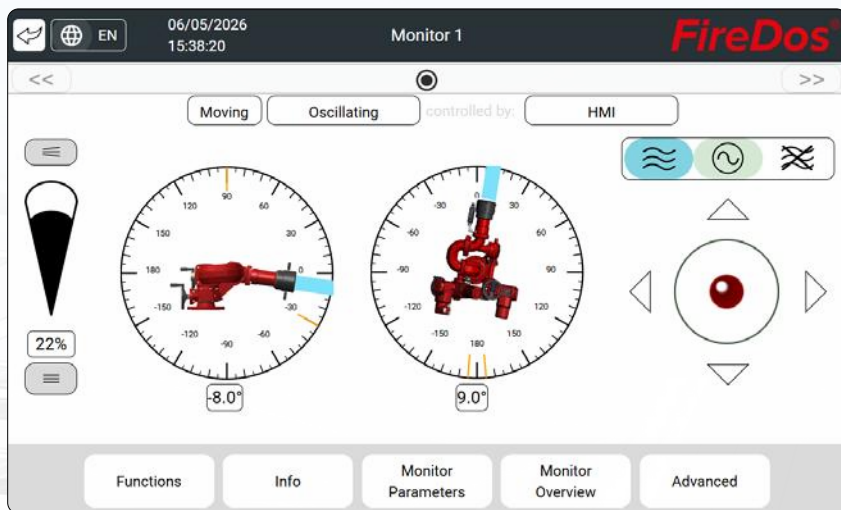
■ INTUITIVE CONTROL, ABSOLUTE PRECISION: THE SCON OPERATING INTERFACE

At the heart of our SCON control system is the intuitive user interface for the quick and precise operation

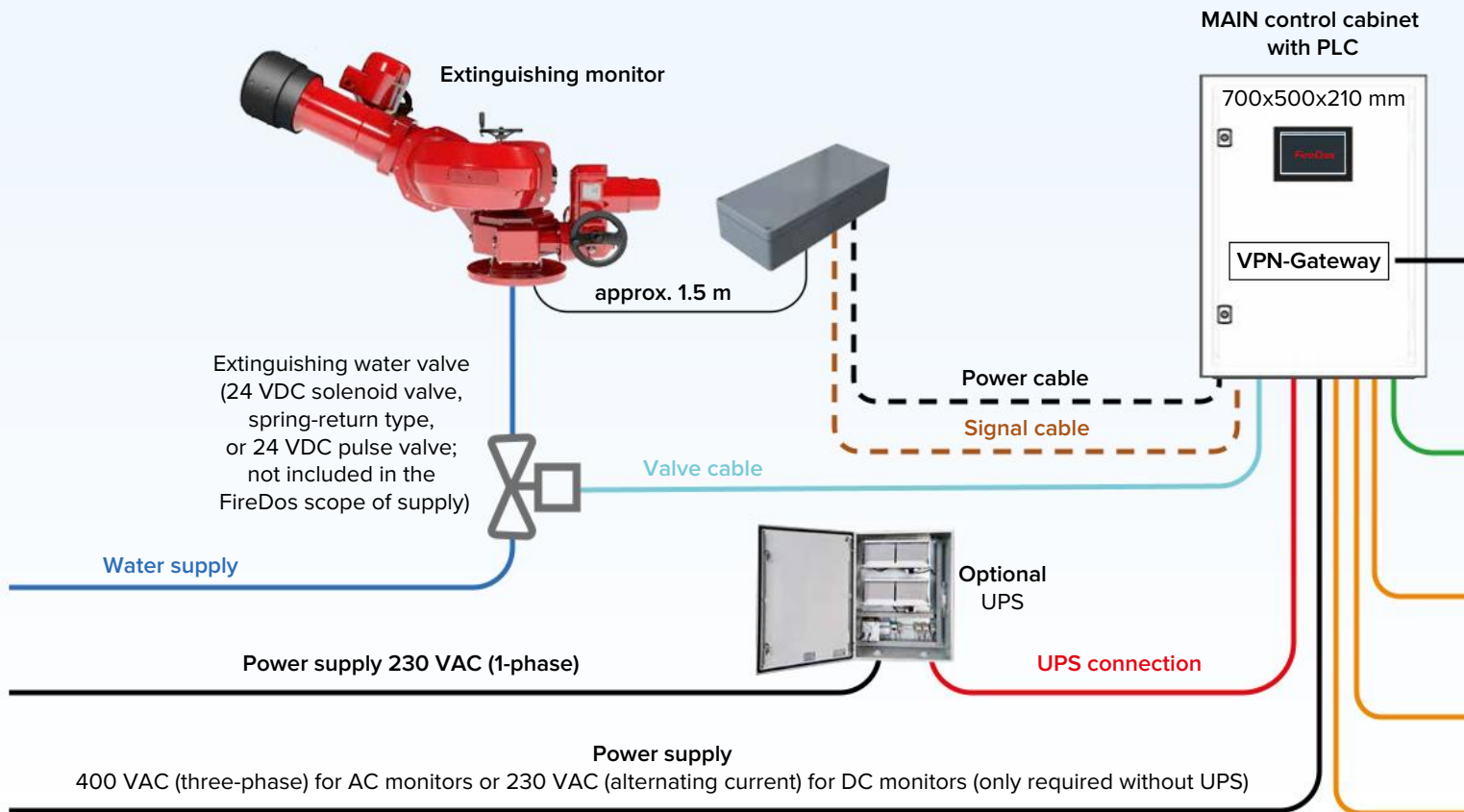
of the FireDos monitors during maintenance and commissioning.

■ FULL SYSTEM CONTROL

Switch seamlessly between the individual monitors in your system and access detailed settings, parameters or system information as required. The clearly structured menu navigation makes configuration and maintenance easier than ever before.



MODULAR AND FLEXIBLE FOR EVERY PROJECT



■ SCON: THE SMART CONTROL SYSTEM FOR YOUR FIRE MONITORS

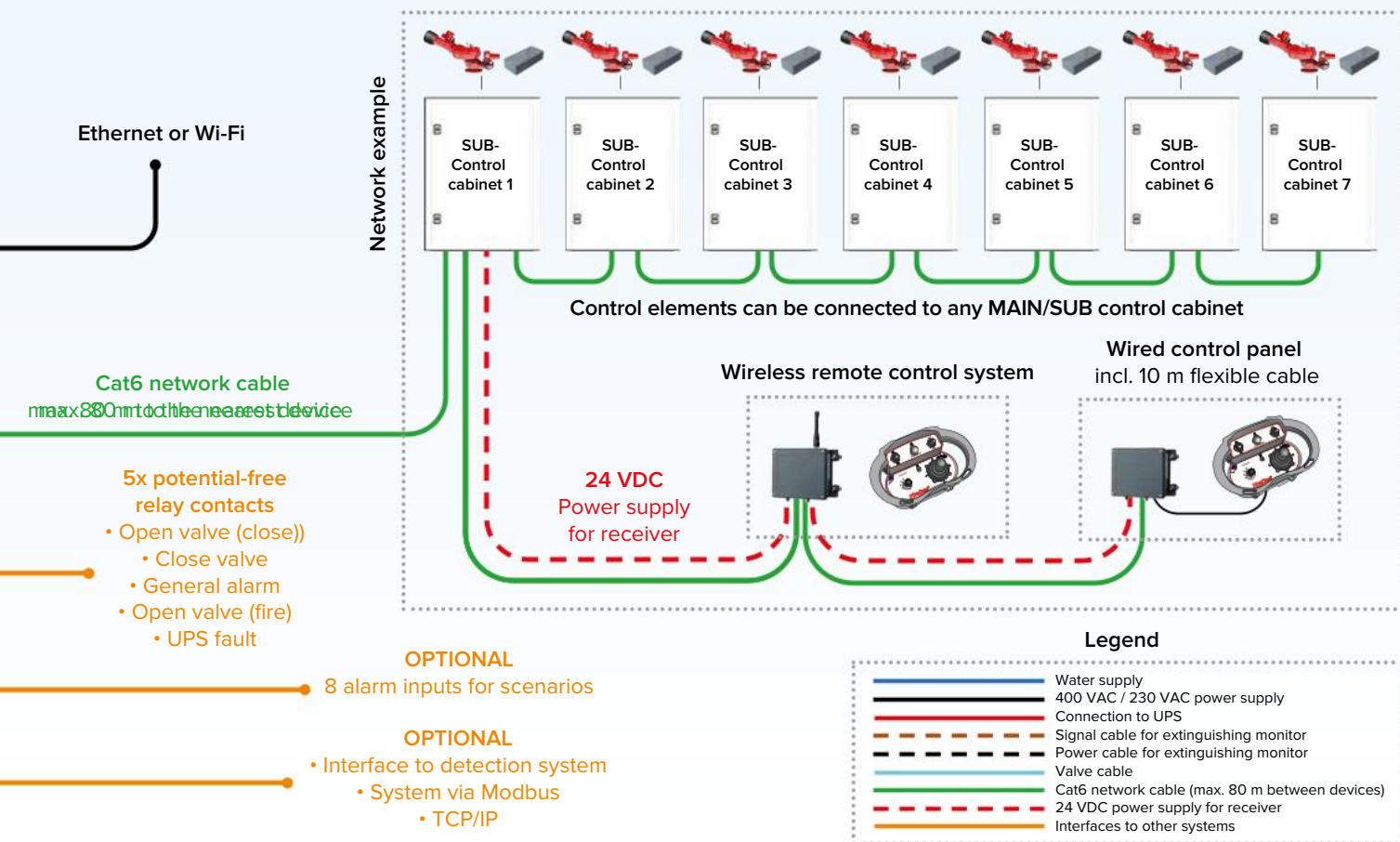
Precision firefighting taken to a whole new level: with FireDos' SCON stationary monitor control system, you have your fire protection system under control at all times, wherever you are. Our modular concept offers you a tailor-made solution that adapts perfectly to the requirements of your premises – from a single unit to an extensive network.

■ MODULAR AND SCALABLE FOR ANY SYSTEM SIZE

At the heart of the system is the SCON-MAIN control cabinet with integrated PLC. From here, you control the entire network. Easily expand your system with up to seven SCON-SUB control cabinets, each controlling an additional extinguishing monitor. This intelligent architecture enables cost-effective scaling and simple installation.

Your benefits:

- Centralised management: All system components can be operated and configured via the HMI in the MAIN control cabinet.
- Grows with your requirements: Start small and expand the system at any time.
- Simple networking: Reliable connection via standard network cables.



■ MAXIMUM OPERATIONAL FLEXIBILITY

Whether directly at the control cabinet, via a wired control panel or using the long-range wireless remote control – you decide how you want to control your monitors. The highlight: every control element can be connected to any MAIN or SUB control cabinet in the network. This means the control system is always available exactly where you need it.

Your benefits:

- Free choice: radio remote control (up to 200 m) or wired control panel
- Decentralised control: operate the entire system from any control point.
- Intuitive operation: Fast and safe response in an emergency

■ SEAMLESS INTEGRATION AND MAXIMUM SECURITY

The SCON control system is designed to integrate perfectly into your existing security infrastructure. Numerous interfaces enable connection to fire alarm panels or higher-level control systems. Optionally available alarm inputs allow the triggering of pre-programmed extinguishing scenarios, whilst a VPN gateway enables remote maintenance and diagnostics. An optional uninterruptible power supply (UPS) ensures maximum operational reliability even in the event of a power cut.

Your benefits:

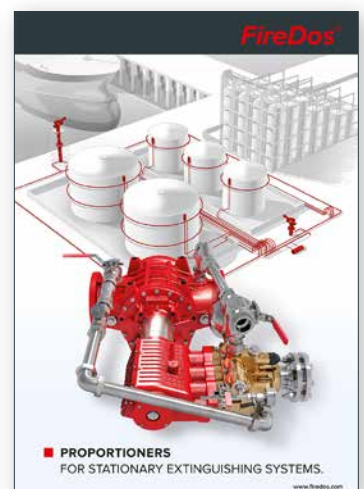
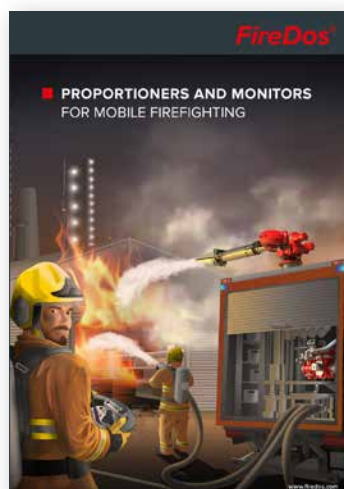
- Smart connectivity: Interfaces for control systems (potential-free contacts) and detection systems (Modbus TCP/IP)
- Automated scenarios: Faster response thanks to predefined extinguishing sequences
- Reliability: Optional UPS guarantees functionality when it matters most



■ OUR SERVICE PROMISE – YOUR ALLROUND CAREFREE PACKAGE

FireDos assists during planning, commissioning and maintenance of your monitor system, worldwide. No matter what type of monitor, at heights or unusual places – no distance is too far and no application too sophisticated. Contact us. We will be pleased to help.

Further brochures:



FireDos GmbH
Auf der Kaulbahn 6
61200 Woelfersheim, Germany
Ph.: +49 (0) 6036 9796-0
Email: info@firedos.de
www.firedos.com