

Marine ONYX® Systems

Approved Components for Marine Applications



Peripheral Devices

General

Notifier's marine-approved fire alarm systems provide reliable, full-featured life safety protection for a wide range of marine applications. FlashScan technology responds rapidly to intelligent sensors, initiating events within seconds of detection. Robust design and physical protection ensure that controls can withstand potentially harsh environments. The marine-listed fire panels support from one to ten SLC loops. Network capability includes multiple control centers and Gateway system expansion.

MARINE-EQ systems have been tested and approved for marine applications using equipment described in this document. A system requires at least the following components:

- A marine-approved enclosure with the appropriate listed battery mounting hardware.
- Marine-approved filter kits.
- A marine-approved fire alarm control panel (FACP), or network control annunciator if applicable.

See "Ordering Information" for other marine-approved products. Only the equipment in this list may be used in marine applications.

System Components

Systems based on NFS2-3030 (non-English operation requires separate keypad kit KP-KIT-XX for alternate languages), NFS-320, and NFS2-640 panels are approved for marine applications when configured using the components itemized in the "Ordering Information" section.

Standard networking is supported using the NCA-2. (See "Ordering Information" for approved part numbers.)

External cabinets and filters of the Marine system ensure that the fire system has enhanced safeguards against destructive electrical surges or high-power radio emissions, as well as a physical barrier against water spray. Marine system components are ordered separately:

- **Outer Marine Cabinet:** CAB-BM (for FACP's and main system). BB-MB (for systems using 100 AH batteries).
- **Mounting Hardware:** PL-BM mounting plate. SEISKIT-CAB, SEISKIT-320/B26, SEISKIT-PS/2/4, BHKIT-BB-MB.
- **Filter Kits:** NOT-FILTER-KIT1, FB-KIT-1, FB-KIT-2, FB-KIT-3.

Noti•Fire•Net network communication modules and MODBUS-GW are also marine-approved as specified in the "Ordering Information" section.

Ordering Information

Marine system cabinets and filters are intended for use with the FACP's specified below.

Fire Alarm Control Panels and Power Supplies

- NFS-320(E), NFS-320C, CPU-320SYS(E). Marine-listed English panel. (Non-English also available.)
- CPU2-640(E). Marine-listed English panel. (Non-English also available.)
- CPU2-3030D-M: Marine-listed English NFS2-3030. (*For non-English operation, order CPU2-3030D-M and the appropriate KP-KIT-XX language conversion keypad kit.*)



CAB-BM
(Shown with NFS-320 mounted)

- AMPS-24(E).
- ACPS-610(E). Marine-listed auxiliary power supply.

Network Equipment

- NCA-2-M: Marine-listed English Network Control Annunciator. (*For non-English operation order NCA-2-M and the appropriate KP-KIT-XX language conversion keypad kit.*)
- NCM-W: Network Communications Module, Wire.
- NCM-F: Network Communications Module, Multi-mode Fiber.
- MODBUS-GW: MODBUS Gateway.
- PNET-1: Surge protector required with MODBUS-GW.

Keypad Kits for Language Conversion

- KP-KIT-FR: Keypad Kit, French
- KP-KIT-HE: Keypad Kit, Hebrew
- KP-KIT-KO: Keypad Kit, Korean
- KP-KIT-PO: Keypad Kit, Portuguese
- KP-KIT-SC: Keypad Kit, Simplified Chinese
- KP-KIT-SP: Keypad Kit, Spanish
- KP-KIT-TC: Keypad Kit, Traditional Chinese
- KP-KIT-TH: Keypad Kit, Thai

Marine System Components

- CAB-BM: B-sized marine cabinet (NEMA 4 approved) cabinet with Notifier logo. Dimensions: 36"H x 30" W x 8"D (914 mm x 762 mm x 203 mm). Door is 16 gauge steel; backbox is 6 gauge steel.
- BB-MB: Marine battery box (NEMA 4 approved). Protects AMPS-24(E) and up to four 100AH batteries.
- BHKIT-BB-MB: Battery holder kit for BB-MB, includes battery shelf, mounting bracket for AMPS-24(E), and battery straps.
- PL-BM: Mounting plate used to attach backboxes of listed fire alarm control panels and power supplies to the CAB-BM. (Supports CAB-B4, CAB-PS1, and NFS-320(E)(C).)

- NOT-FILTER-KIT1: EMI filter, ferrite beads, mounting hardware, and documentation for specified marine applications using either 120 VAC or 220-240 VAC.
- FB-KIT-1: Ferrite bead for use on NUP connections
- FB-KIT-2: Ferrite bead for use with MODBUS-GW Ethernet connections.
- FB-KIT-3: Ferrite bead for use with additional NUP, SLC, 24V power, EIA-485 connections.

Cabinets and Mounting Hardware

- ADP-4B: Annunciator dress panel.
- BMP-1: Blank module plate.
- BP2-4: Battery dress plate.
- CAB-B4: B-sized cabinet. Order as SBB-B4 backbox and DR-B4 door, lock, and keys. Black.
- CAB-PS1: ACPS-610(E) stand-alone cabinet.
- CHS-4: Chassis.
- CHS-4L: Chassis, Low Profile.
- CHS-6: Chassis mounts XP-6 modules in CAB-B4.
- CHS-M3: Chassis for NCA-2.
- DP-1B: Blank Dress Panel.
- DP-DISP: Display Dress Panel for NFS2-3030
- DP-DISP2: Display Dress Panel for NFS2-640 .

Battery Straps

- SEISKIT-CAB: Required with CAB-B4.
- SEISKIT-320/B26: Required with NFS-320(E)(C) backbox.
- SEISKIT-PS/2/4: Required with CAB-PS1.
- *BHKIT-BB-MB: See description under "MARINE-EQ Components" (above).*

Control Panel Peripherals

- ACM-24AT: Annunciator Control Module.
- ACM-48A: Annunciator Control Module.
- AEM-24AT: Annunciator Expander Module.
- AEM-48A: Annunciator Expander Module.
- BAT-12120: Battery 12 volt 12 AH. (Order as BAT-12120-BP)
- BAT-12180: Battery 12 volt 18 AH. (Order as BAT-12180-BP)
- BAT-12260: Battery 12 volt 26 AH. (Order as BAT-12260-BP)
- BAT-121000: Battery, 12 volt, 100 AH.
- KDM-R2: Keypad/Display Unit (NFS2-640(E))
- LCD2-80: Liquid Crystal Display Annunciator, 80 character display.
- LCM-320: Loop Control Module.
- LEM-320: Loop Expander Module.

All Other Devices

NOTE: "A" and "C" endings indicate ULC listed versions, which are not suitable for U.S. Coast Guard applications.

- 1451(A): Smoke detector (retrofit).
- 2151(A): Smoke detector.
- 2W-B/C2W-BA: 2-wire conventional smoke detector.
- 4W-B/C4W-BA: 4-wire conventional smoke detector.
- 4WT-B/CWT-BA: 4-wire conventional smoke detector.
- B200S: Intelligent addressable sounder base.
- B200SR: Sounder base.
- B224BI(A): Intelligent isolator base.
- B224RB(A): Intelligent relay base.
- B401(A): Base.
- B501(A): Intelligent base.
- B210LP(A): Low-profile detector base.

- B710LP(A): Base (retrofit).
- BBS-2(A): Backbox skirt, wall, red.
- BBSC-2(A): Backbox skirt, ceiling, red.
- BBSCW-2(A): Backbox skirt, ceiling, white.
- BBSW-2(A): Backbox skirt, wall, white.
- CHR(A): Chime, red.
- CHSR(A): Chime/strobe, red.
- CHSW(A): Chime/strobe, white.
- CHW(A): Chime, white.
- DNR(A): Intelligent duct detector.
- DNRW: Intelligent, watertight duct detector, NEMA 4.
- EOLR-1: EOL for 4 wire smoke.
- FAPT-851(A): Acclimate Plus.
- FCM-1(A): Addressable control module.
- FCM-1-REL(A): Releasing control module.
- FDM-1(A): Dual monitor module.
- FMM-1(A): Addressable monitor module.
- FMM-101(A): Addressable mini monitor module.
- FRM-1(A): Addressable relay module.
- FMM-4-20(A): Module for monitoring 4 to 20 mA sensors.
- FDRM-1(A): FlashScan dual relay/monitor module.
- FCO-851(A): IntelliQuad PLUS multi-criteria fire and CO detector.
- FSI-851(A): Addressable ion detector.
- FSP-851(A): Addressable photo detector.
- FSP-851R(A): Addressable photo detector/remote test capable used with DNRW.
- FSP-851T(A): Addressable photo/thermal detector.
- FST-851(A): Addressable thermal detector.
- FST-851H(A): Addressable high-heat detector.
- FST-851R(A): Addressable heat detector with rate-of-rise.
- FZM-1(A): Addressable zone monitor module.
- HR(A): Horn, red.
- HRK(A): Horn, red, outdoors.
- HW(A): Horn, white.
- ISO-X(A): Loop fault isolator module.
- NBG-12LO: Pull station, dual action, Notifier key lock, outdoor.
- NBG-12LOB: Same as NBG-LO, includes weather-proof box.
- NBG-12LR: Agent release pull station, dual action, Notifier key lock.
- NBG-12LRA: Agent release-abort pull station, dual action, Notifier key lock.
- NBG-12LX: Addressable pull station, dual action, Notifier key lock.
- NBG-12LXSP: Addressable pull station, dual action, Notifier key lock, Spanish.
- P2R(A): Standard candela, red.
- P2RH(A): High candela, red.
- P2RHK(A): High candela, red, outdoor.
- P2RH-P: High candela, red, plain (no lettering).
- P2RK(A): Standard candela, red, outdoor, includes backbox.
- P2RK-R: Standard candela, red, outdoor, does not include backbox.
- P2R-P: Standard candela, red, plain (no lettering).
- P2R-SP: Standard candela, red, fuego.
- P2W(A): Standard candela, white.

- P2WH(A): High candela, white.
- P2WH-P: High candela, white, plain (no lettering).
- P2W-P: Standard candela, white, plain (no lettering).
- P4R(A): 4-wire horn/strobe, standard candela, red.
- P4RH(A): 4-wire horn/strobe, high candela, red.
- P4RHK(A): 4-wire horn/strobe, high candela, red, outdoor.
- P4RK(A): 4-wire horn/strobe, standard candela, red, outdoor.
- P4W(A): 4-wire horn/strobe, standard candela, white.
- P4WH(A): 4-wire horn/strobe, standard candela, white, outdoor.
- PC2R: Standard candela, red.
- PC2RH: High candela, red.
- PC2RHK(A): High candela, red, outdoor.
- PC2RK(A): Standard candela, red, outdoor.
- PC2W(A): Standard candela, white.
- PC2WH(A): High candela, white.
- PC4R: 4-wire standard candela, red.
- PC4RH: 4-wire high candela, red.
- PC4RK(A): 4-wire standard candela, red, outdoor.
- PC4W(A): 4-wire standard candela, white.
- PC4WH(A): 4-wire high candela, white.
- R-120: 120 Ohm End of line resistor.
- R-2.2K: 2.2K Ohm End of line resistor.
- R-27K: 27K Ohm End of line resistor.
- R-47K: 47K Ohm End of line resistor.
- REL-47K: 47K Ohm End of line resistor for releasing applications.
- SA-WBB(A): Weatherproof backbox, wall.
- SA-WBBC(A): Weatherproof backbox, ceiling.
- SA-WBBCW: (mounting box).
- SA-WBBW: (mounting box).
- SB-10: Surface back-box for all NBG-12 series pull stations.
- SBA-10: Mounting box for NBG-12LRA.
- SB-I/O: Indoor/outdoor backbox.
- SCR: Strobe, standard candela, red.
- SCRH: Strobe, high candela, red.
- SCRHK(A): Strobe, high candela, red, outdoor.
- SCRK(A): Strobe, standard candela, red, outdoor.
- SCW(A): Strobe, standard candela, white.
- SCWH(A): Strobe, high candela, white.
- SR(A): Standard candela, red.
- SRH(A): High candela, red.
- SRHK(A): High candela, red, outdoor.
- SRK(A): Standard candela, red, outdoor.
- SSM24-6: 6 inch bell.
- SSM24-10: 10 inch bell.
- SW(A): Standard candela, white.
- SWH(A): High candela, white.
- XP10-M(A): Ten-input monitor module.
- XP6-C(A): Supervised control module.
- XP6-MA(A): Six-zone interface module.
- XP6-R(A): Six-relay control module.
- XNX-UTAE-RNNNN: Gas detector assembly - hydrogen sulfide.
- XNX-UTAV-RNIF1: Gas detector assembly - propane.
- XNX-UTAV-RNCB1: Gas detector assembly - methane.

Marine Approvals

ONYX marine systems include NFS2-3030D-M and NCA-2-M (marine approved versions of the NFS2-3030D and NCA-2, English language. For non-English languages, use the the appropriate KP-KIT(XX).), NFS2-640 control panels, NFS-320/NFS-320C/NFS-320SYS, and all non-English versions of these panels. When used with the CAB-BM, BB-MB, PL-BM, appropriate filter kit, appropriate battery strap, and marine approved devices as defined in Installation Sheet 54756, these ONYX fire alarm control panels are approved by the following agencies:

- US Coast Guard (Standard 46 CFR and 161.002/55/0).
- Lloyd's Register (ENV 3 category).
- American Bureau of Shipping (ABS) Type Approval.

Notifier systems are listed with UL, ULC, and other agencies; for a complete description of approvals, refer to your panel's data sheet.

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