sm electrics

BRIDGE ALERT MANAGEMENT

BAM

In general the bridge alert management system (BAMS) has been designed to give sustained support to the Officer of the Watch - especially in multiple alarm situations by merging all present alarms into a harmonized list on a central screen. This centralized alarm management tool is guiding the OOW by indicating all active alarms of nautical systems in graduated order. The bridge alert management system BAM le guardian 3000 controls all audible alarms on the bridge by a bi-directional alarm, acknowledge and sound off interface. The system provides alarm specific instruction assisting the OOW to react appropriately. A continuous event log ensures data is permanently available for systematic analysis of critical incidents or other exceptionals.

made
in
Germany

APPLICATION

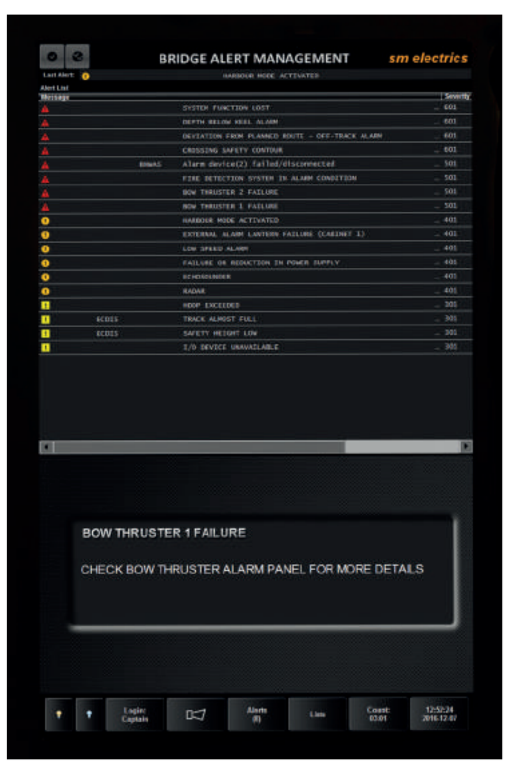
type approved by major classes
alarm system for nautical alarms
sustained OOW support
type approved BNWAS included

An integrated Type Approved (wheel-marked) bridge navigational watch alarm system (BNWAS) transfers unattended alarms automatically to selected backup officer areas. A connecting module is monitoring all BNWAS alarm devices and reset facilities. Intelligent features, such as a self-test routine, are included as standard – evidence of the company's long-standing experience.

The certified Bridge Alert Management system with integrated BNWAS – BAM le guardian 3000 is able to handle in addition to the binary alert processing, the newest alert telegram standards as „advanced alert related communication" with ACN, ALC, ALF and ARC according to IEC 61924-2, IEC-62923-1/2, ALR, TXT, ACK and HBT according to IEC 61162-1 (2) communicated via network protocol EN 61162-450 („lightweight ethernet") or serial communication (RS-422).

MED type approved | system voltage: 24 DCV nominal | IEC 62616 IEC 61924 IEC 60945

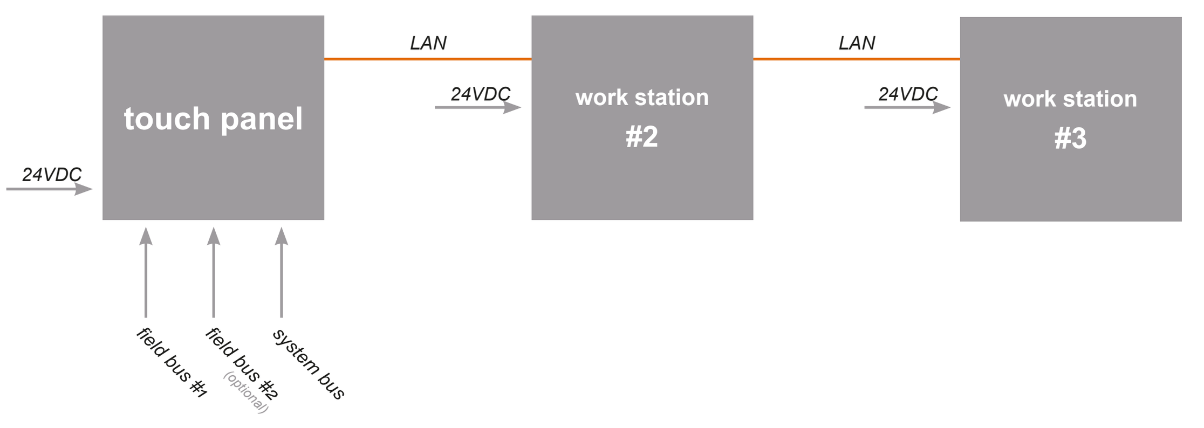
BRIDGE ALERT MANAGEMENT le guardian 3000

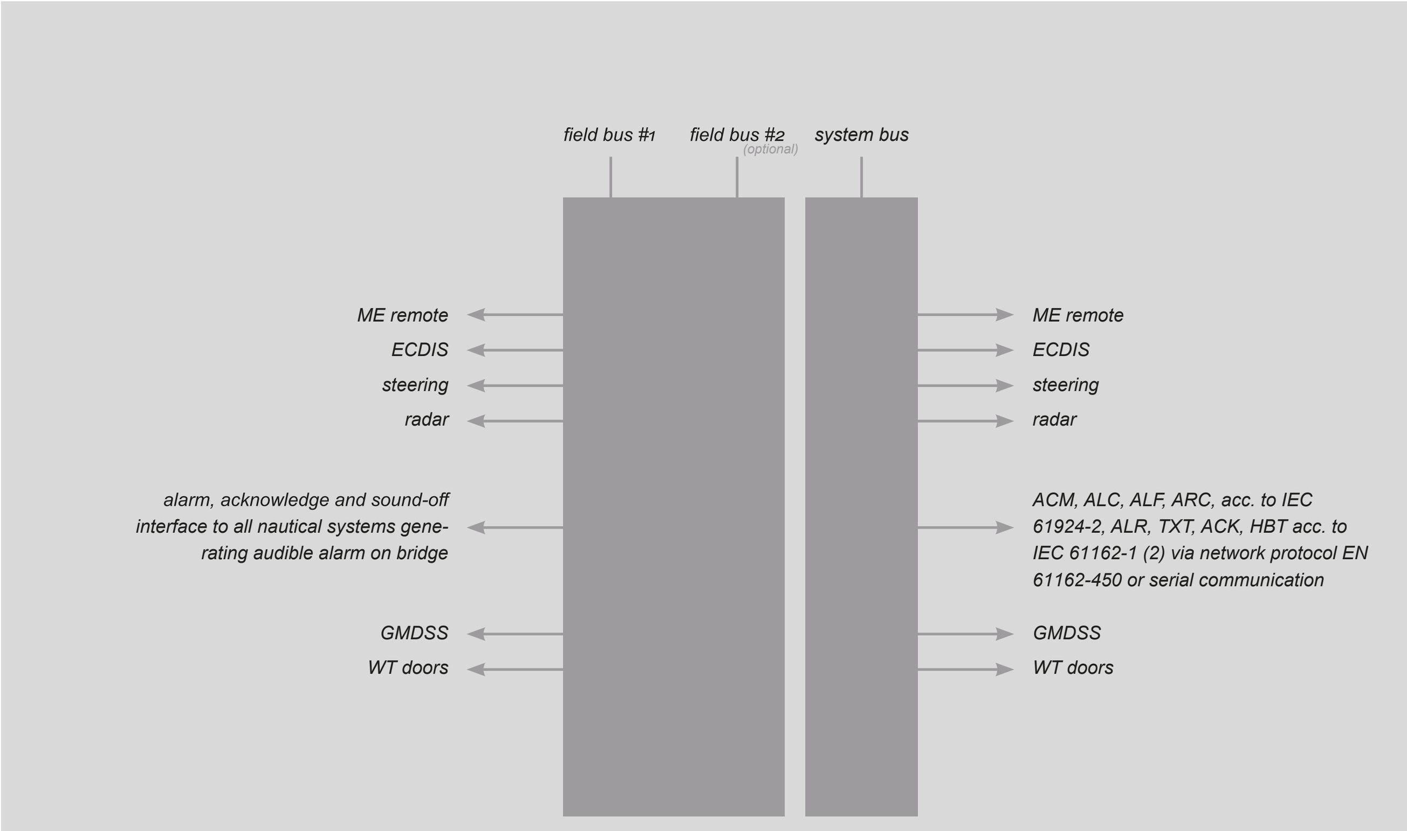


BAM working screen
7" / 12" / 15"

- clear and standardised identification.
- system classifies the incoming alert and arrange it into the right ranking
- most important alert on the top at all hours
- alarm specific instruction text guides the OOW in each language
- user can edit the guiding text

BRIDGE ALERT MANAGEMENT le guardian 3000

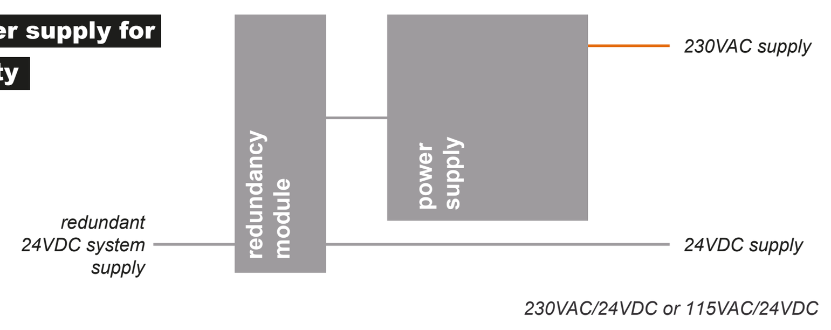




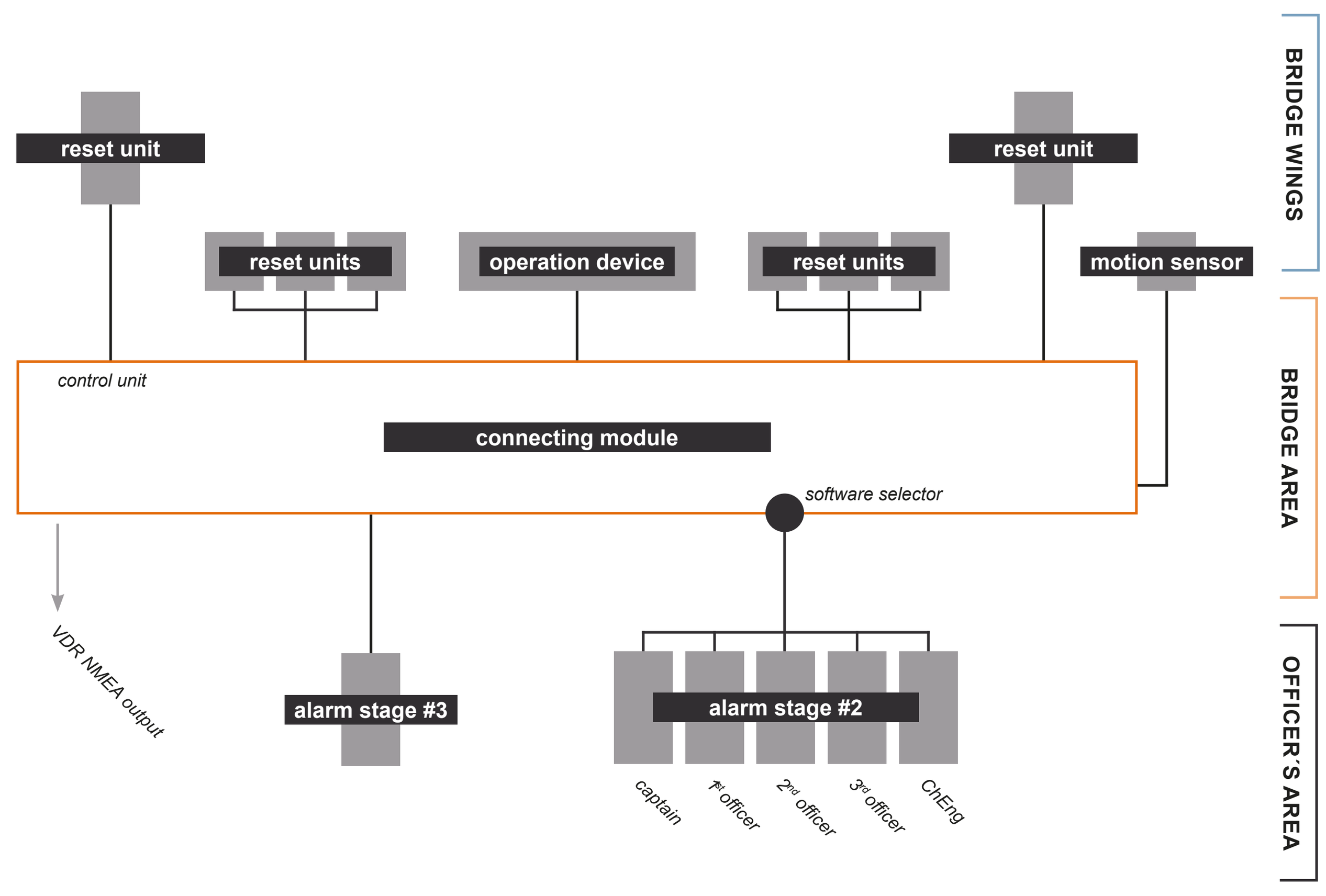
- redundant field bus (RS485)
- modular 56 binary extension I/O interface
- Multiple NMEA ports (serial & light ethernet)
- Dual power supply philosophy 230VAC/24VDC or 115VAC/24VDC
- Multiple touch panel operation
- Master clock & Ferry mode (ZDA & SOG via NMEA)

DUAL POWER SUPPLY PHILOSOPHY

dual power supply for your safety



BNWAS le guardian 3000



VARIOUS BNWAS ALARM SITUATIONS


dormant period active


pre alarm situation


stage #2 alarm system


stage #3 alarm system

PERIPHERY EQUIPMENT

TOUCH PANEL — *990887*

TPPC-15 | Eaton XP 503

- 15,6" panel PC
- 24 VDC power supply
- modern multi touch technology
- SSD technology

BUZZER *with USB port* — *990256*

BUZ | SME-M006-1

- connection via USB
- 70...95 dB(A)
- dimension 125 x 50 x 30mm

5-PORT SWITCH — *990157*

SWI-5 | SME-EDS-305

- 24VDC power supply
- 5 ethernet ports
- DCV-GL certified

8-PORT SWITCH — *990158*

SWI-8 | SME-EDS-308

- 24VDC power supply
- 8 ethernet ports
- DCV-GL certified

NMEA MULTIPLEXER/BUFFER/CONVERTER *1in8* — *770732*

MEP-8 | SME-mplex-8-GIC-LWE

- IEC 61162 - 450 certified
- 8 serial to ethernet ports
- 24 VDC power supply

POWER SUPPLY *EMC1* — *990257*

Q-PS-10A | SME-Q-PS-1AC/24VDC/10

- 1-phase input
- 24 VDC
- 10 A
- incl. output monitoring

SUPPLY REDUNDANCY MODULE — *990706*

YR2.DIODE | SME-YR2.DIODE

- 2x 10 - 60 V DC input
- 24 VDC
- 10 A

SME OPERATION SERVER — *990701*

PSV | SME-M010-1

- BAM operation server
- 24 VDC power supply
- DIN-Rail mounted

32 CH CONTACT INPUT MODULE — *990254*

CI-32 | SME-M001-2

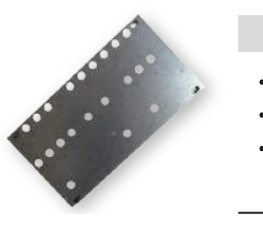
- 32 binbary input channel
- 24 VDC power supply
- dimension 140 x128 x 70mm

12 CH RELAY OUTPUT EXTENSION MODULE — *990255*

ROX-12 | SME-M002-2

- 12 channel relay output extension module
- 24 VDC power supply
- dimension 140 x 128 x 70mm

CABINET / MOUNTING PLATE — *000118*



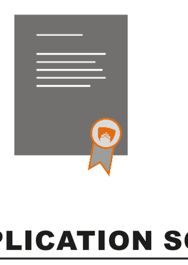
- mounting plate for BAM (basic)
- dimension 650 x 420 x 30mm
- internal wiring work included

PERIPHERY CONNECTION MODULE *incl. BNWAS visualisation* — *770601*

LCM 310.24.0.0 | LCM 310.24.0.0

- distribution of all BNWAS alarm and reset facilities
- 24 VDC power supply
- NMEA interface to VDR
- DIN-Rail mounted

APPLICATION SOFTWARE CLIENT — *000237*



BAM-LG3000.0 | SME-SW002-1

- licence BAM le guardian 3000
- visualisation

APPLICATION SOFTWARE SERVER — *000227*

BAM-LG3000.0 | SME-SW001-1

- licence BAM le guardian 3000
- visualisation + operation server