

Vendor Data Cover Sheet

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Client Project N° : A3070
Purchase Order N° : P-A3070-13500
Requisition Description : Navais System
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Gaz deFrance Document N° : EL-01 - 001
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DOCUMENT REVIEW STATUS

Signed GdF: 5.1.2.e **Date:** 09-07-08

(A)	REVIEWED	NO COMMENTS	WORK MAY PROCEED
B	REVIEWED AS NOTED	FULLY INCORP. ALL COMMENTS & RE-SUBMIT FOR REVIEW	WORK MAY PROCEED
C	REJECTED	FULLY INCORP. ALL COMMENTS & RE-SUBMIT FOR REVIEW	WORK MAY NOT PROCEED
D		FOR INFORMATION ONLY	WORK MAY PROCEED
E	AS-BUILT UPDATE REQUIRED	NO COMMENTS	WORK MAY PROCEED



Gaz de France



EQUIPMENT DATA SHEETS

CLIENT	GDF PRODUCTION NEDERLAND B.V.		
CLIENT REF.	PA-3070-13500		
ORGA REF.	2008-NO-46195		
DOCUMENT NO.	46195EDS		
DATE	JUNE 27, 2008	REV.	01
EQUIPMENT	NAVIGATIONAL AIDS SYSTEM – G17A-A PRODUCTION PLATFORM		

NAVAID CENTRAL CONTROL PANEL (NCCP).

Type	: NCCP
Make	: Orga
Standard EX	: Cenelec EN 50014/18
Protection EX	:  II 2 G EEx d IIB T5
Certificate	: KEMA 02ATEX2103
Battery charger	: Safe area version, isolated at mains failure; AC Isolation by Client; DC Isolation by Orga in flame proof panel
System suitable for zone	: 2
Support	: Rittal panel as listed below
Rittal panel colour	: RAL7035
MCT frame	: 2x included , stainless steel Roxtec type
Dimensions (wxdxh)	: Approx. 1000 x 600 x 2200mm
Floor plinth	: Included, 200mm high (2x 100mm (split type))
EEx e connection box	: Included, stainless steel 316 material
Cable glands	: Provided at top of the EEx e connection box
Gland type	: Brass CMP T3CDS types for the battery cable Plastic Hummel HSK-EX types for the remaining connections
Mains ON/OFF switch	: Included
Spare entries	: Included, plugged
Common alarm contact	: Included, hard wired

The NCCP comprises the following sub-control systems:

- : - Battery charger / Rectifier
- Lantern controller
- Foghorn controller
- DC Distribution part

L303EX-C-H20-300 EXPLOSION PROOF MARINE LANTERN

DATASHEET

Key features

- Reliable Marine Navigation Light, low cost of ownership and low power consumption.
- Suitable for Zone 1 & zone 2 gas explosion hazard category 2G&3G
- Designed to work in conjunction with ORGA's Central Control Panel (NCCP) concept.
- U-coded power supply from NCCP for low cable costs and failure free synchronisation.
- Light weight, strong and corrosion free, easy to open body

Specifications

Designed to standard:

- IALA, recommendations for the marking of offshore structures
- Dutch Mining Regulations
- U.S. Coast Guard 33 CFR 67.20-1 for obstruction lights on Class "A" structures
- ATEX Directive 94/9/EC
- Cenelec EN 50014/18/19/28 and EN 50281-1-1

Certificates / approvals

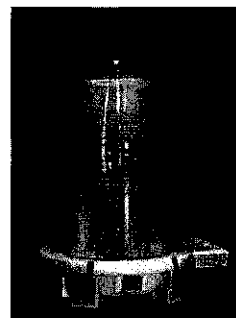
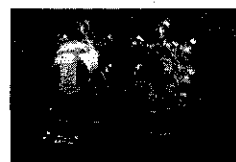
- KEMA 02 ATEX 2050 (ATEX Directive 94/9/EC)
- ATEX  II 2GD EEx edm IIB T3 T65°C
- Test report Dutch Lighthouse Authorities

Optical characteristics

- Flashing clear light, Morse code "U" every 15 seconds controller by NCCP (other codes possible on request)
- 300 mm diameter high efficiency Fresnel lens.
- Effective Intensity 1,400 cd white (10 nautical miles at ATF=0,74)
- Horizontal beam pattern 360°
- Vertical beam angle min. 2.5°
- Krypton filled CC8 lamp

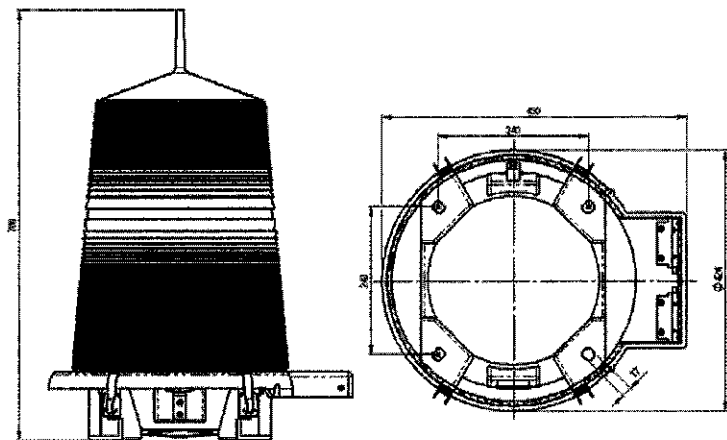
Electrical characteristic

- 230V/0.16A coded supply from navigational aids central control panel.
- Internal step down transformer 230V/12V
- Lamp 12V/3A/CC8/EX
- Wire connections max. 4mm²



Mechanical characteristics

- UV and humidity resistant base, including quick release clamps for easy maintenance
- Injection moulded UV resistant lens with anti bird spike (prevents bird fouling)
- Automatic Lamp changer with 6 lamps (1 in service, 5 reserve) for 6000 hours service interval
Automatic lamp changer stops after last lamp used
- Ingress Protection IP65 (by design)
- Operating temperature range -40° to +40°C
- 2 cable entries M25
- Height 700mm, base 490 x 424mm
- Four Mounting holes $\varnothing 17\text{mm}$ at 240 x 240mm
- Weight approx. 12 kg





FH800(3)EX-xx COMBINED MAIN-SECONDARY FOGHORN

DATASHEET

Key features

- Reliable marine foghorn, low cost of ownership
- Suitable for Zone 1 and Zone 2 areas with gas explosion hazard
- Operating voltage and code control provided from navigational aids central control panel
- Monitoring system integrated in central control panel
- Soundbaffle for inboard sound reduction available on request

Specifications

Designed to standard:

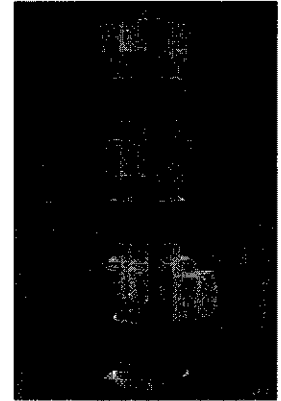
- Cenelec EN50014/18/19
- IALA regulations

Certificates / approvals

- KEMA 02ATEX 2269 (foghorn) KEMA 02ATEX2103 (junction box) according ATEX Directive 94/9/EC
- ATEX  II 2G EEx e II T6 foghorn
- ATEX  II 2G EEx d IIB T5 junction box
- Trinity House (UK)
- Dutch Lighthouse authorities
- US Coast Guard

Characteristics

- Morse code "U" every 30 seconds from navigational Aids control panel
- Effective range main foghorn 2,0NM (134dB(A) at 1 meter)
- Effective range secondary foghorn 0,5NM (112dB(A) at 1 meter)
- Horizontal sound divergence 360°

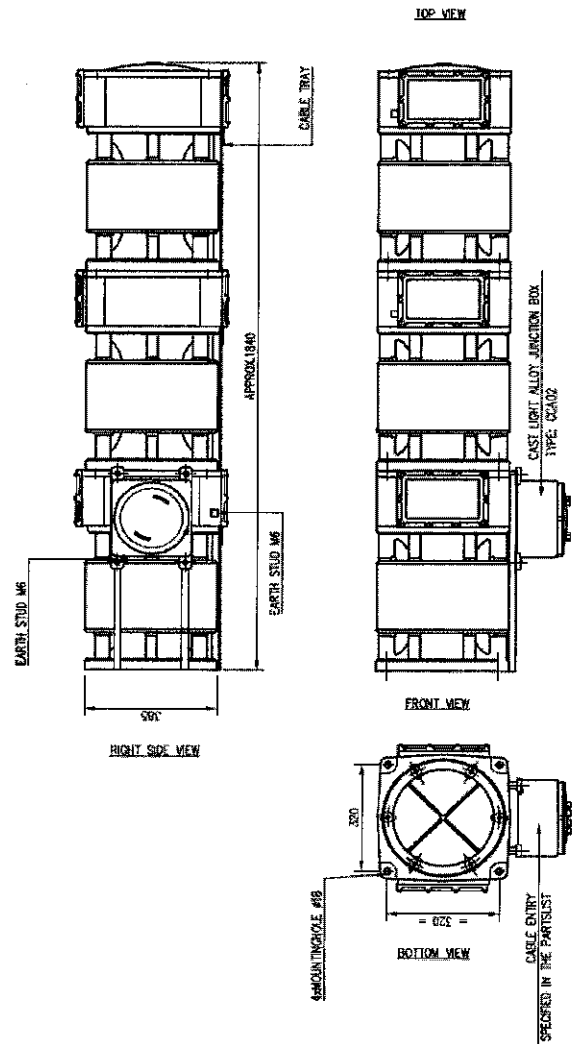


Electrical characteristic

- Internal and external earth connection
- Wire connections max. 6 mm²

Mechanical characteristics

- Offshore coated seawater resistant light alloy body or casted stainless steel 316 body.
- Degree of Ingress Protection IP65 (by design)
- Operating temperature range -40°...+40 °C
- 1 cable entry M25x1,5
- Dimensions : L x W x H = 1840mm x 555 x 444mm
- Four Mounting holes Ø18mm at 320 x 320mm.





EXTERNAL PHOTOCELL

Type	:	SS24EX
Make	:	Orga
Standard	:	Cenelec EN 50014/19/28
Certificate	:	KEMA 02ATEX2267X
Protection	:	Ex II 2 G EEx em II T6
Ingress protection	:	IP66
Permitted zones	:	1 and 2
Dimensions (lxwxh)	:	Approx. 80 x 75 x 55 mm
Weight	:	Approx. 300 g
Material	:	Glass fibre reinforced polyester
Quantity	:	1

BATTERY RACK AND NICKEL CADMIUM BATTERY

For a system with incandescent lamps & lampchanger lanterns

Make	:	Hoppecke
Type of battery	:	Nickel Cadmium
Type	:	FNC132L
Capacity 5 hrs cell	:	132 Ah / 5h / 20°C / 1.14 V
Quantity of cells	:	20
Total nominal voltage	:	24 VDC
Capacity 5 hrs.	:	132Ah / 5h / 20°C / 24 V
Autonomy	:	36 hours
Rack type	:	Coated steel, including acid proof coating
Suitable for areas	:	Safe area only
Dimensions	:	750 x 646 x 694mm (WxDxH)
Quantity	:	1



EXPLOSION PROOF BATTERY CIRCUIT BREAKER BOX

Type	: DBO421
Make	: Orga
Dimensions	: Approx. 476 x 290 x 745mm (WxDxH)
Standard	: EN 50014/50018 Cenelec
Certification	:  II 2 G EEx d IIB+H2 T5
Certificate	: KEMA 02ATEX2103
Material	: Copperfree cast alloy (excluding coating)
Cable glands	: Provided, type <u>CMP T3CDS</u>
Terminals	: included.
Weight	: Approx. 45 kg
Brackets	: Included, suitable for wall mounting
Provided with	: <ul style="list-style-type: none">- 1 Each circuit breaker, 2 pole (controllable through enclosure front)- 2 Each battery circuit breaker status contacts- 1 Set terminals
Quantity of circuit breaker boxes	: 1



VDX05EX-NNN... EXPLOSION PROOF ZONE 1 VISIBILITY METER / FOG DETECTOR

DATASHEET

Key features

- Reliable visibility meter / fog detector, low cost of ownership
- Continuous visibility metering
- Visibility thresholds to trigger foghorns and/or lights
- Designed to meet the harsh offshore environment (salt, water, etc)
- Robust stainless steel, light weight design, suitable for pole mounting
- Easy to install, simple to use
- Low power consumption
- Certified for Zone 1 areas with gas explosion hazard
- Spacious, easy to open junction box
- Self monitoring of basic functions as a standard
- Prepared for Orga's future comprehensive remote integrity monitoring system

Designed to standard:

- ATEX  II 2G Ex de IIB T5
- EN 60079-0, EN 60079-1, EN 60079-7

Certificate

- KEMA 05ATEX2189

Visibility measurement

- Back scatter operating principle
- Laser LED long life light source, class 3R
- Range: 20 to 10.000 meter / 0.01 to 5.4 nautical mile
- Measurement time interval 60 seconds
- Software controlled anti-dew window heater

Electrical characteristics

- Integrated multi voltage power supply unit 100–240 VAC; 50-60Hz or 10–60 VDC
- Power consumption approx. 5 Watt and an additional 2 Watt for the anti dew window heater (when in operation)
- Analogue visibility output: see table
- Set point 1: SPCO contact 2A (non inductive) default set to approx. 1500 meter (for triggering navigation lights)
- Set point 2: SPCO contact 2A (non inductive) default set to approx. 3700 meter (for triggering 2 nautical miles for foghorn)
- Over-voltage protection provided
- Ex e terminals for max 4 mm²
- Internal M5 and external M6 earth connection
- Two M25x1.5 entries

Mechanical characteristics

- Stainless steel 316 cast body
- Designed for pole mounting $\varnothing$ 52 mm / 2 inch (ease of aiming)
- IP66 degree of ingress protection (KEMA tested)
- Operating temperature range -20 °C to +40 °C
- Integrated junction box for quick opening and cable connection (opening by just 4 stainless steel retaining bolts)
- Height 314 mm, Length 475 mm, Width 150 mm
- Weight approx. 20 kg

Type Number	Analogue visibility output
VDX05EX-NNNi	4-20mA

