

## VDX05EX

Explosion proof visibility meter / fog detector

**The fog detector (visibility meter) provides automatic activation of the foghorns at preset meteorological conditions and can be used in conjunction with the Navaid Central Control Panel (NCCP).**



### Key features

- Reliable visibility meter / fog detector
- Low cost of ownership
- Certified for Zone 1 areas with gas explosion hazard
- Continuous visibility metering to trigger foghorns and/or lights
- Designed to meet the harsh offshore environment (salt, water etc.)
- Robust 316 stainless steel, light weight design, suitable for pole mounting which can be supplied as an option
- Easy to install with spacious, easy to open junction box for quick opening and cable connection (opening by just 4 stainless steel retaining bolts)

### Standards/Certification

- Cenelec EN 60079-0, EN 60079-1, EN 60079-7, EN 50014, EN 50018 and EN 50019
- KEMA 05ATEX2189; ATEX Ⓜ II 2G Ex de IIB T5 according to ATEX Directive 94/9/EX

### Performance characteristics

- Back scatter operating principle
- Laser LED long life light source, class 3R
- Range: 20 to 10,000 meter / 0.01 to 5.4NM
- Measurement time interval 60 seconds
- Software controlled anti-dew window heater

### Electrical characteristics

- Operating voltage: Integrated multi voltage power supply unit 100–240Vac; 50-60Hz or 10–60Vdc
- Power consumption: 5W / 11VA and an additional 2W / 4VA for the anti dew window heater (when in operation)
- Analogue visibility output: VDX05EX-NNNi: 4-20mA & VDX05EX-NNNu: 0-5V
- Set point 1: SPCO contact 2A (non inductive) default set to 1,500 meter (for triggering navigation lights)
- Set point 2: SPCO contact 2A (non inductive) default set to 3,700 meter (for triggering 2NM for foghorn)
- Connection details: max. 4mm<sup>2</sup>; two M25x1.5 cable gland entries
- Earth connection: internal M5 and external M6
- Over-voltage protection provided

### Physical characteristics

- Dimensions (L x W x H): 475 x 150 x 314mm
- Weight: 20kg
- Degree of protection: IP66
- Operating temperature range: -20°C to +45°C
- Designed for pole mounting ø 52mm / 2 inch

### System design, control and monitoring (optional)

- Prepared for Orga's future comprehensive remote integrity monitoring system
- Self monitoring of basic functions as a standard

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