

**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
- IEC60079-0, IEC60079-1 and IEC60079-7
- IECEx DEK 11.0104; Ex de IIB T5 Gb
- ABNT NBR IEC 60079-0, ABNT NBR IEC 60079-1 and ABNT NBR IEC 60079-7
- Inmetro NCC 13.1771; Ex d e IIB T5 Gb IP66

### Performance characteristics

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

### Electrical characteristics

- Operating voltage: Integrated multi voltage power supply unit 100-240 Vac; 50-60 Hz or 10-32 Vdc
- Power supply connection details: max. 4 mm<sup>2</sup>; two M25x1.5 cable gland entries
- Earth connection: internal M5 and external M6
- Over-voltage protection provided

### Physical characteristics

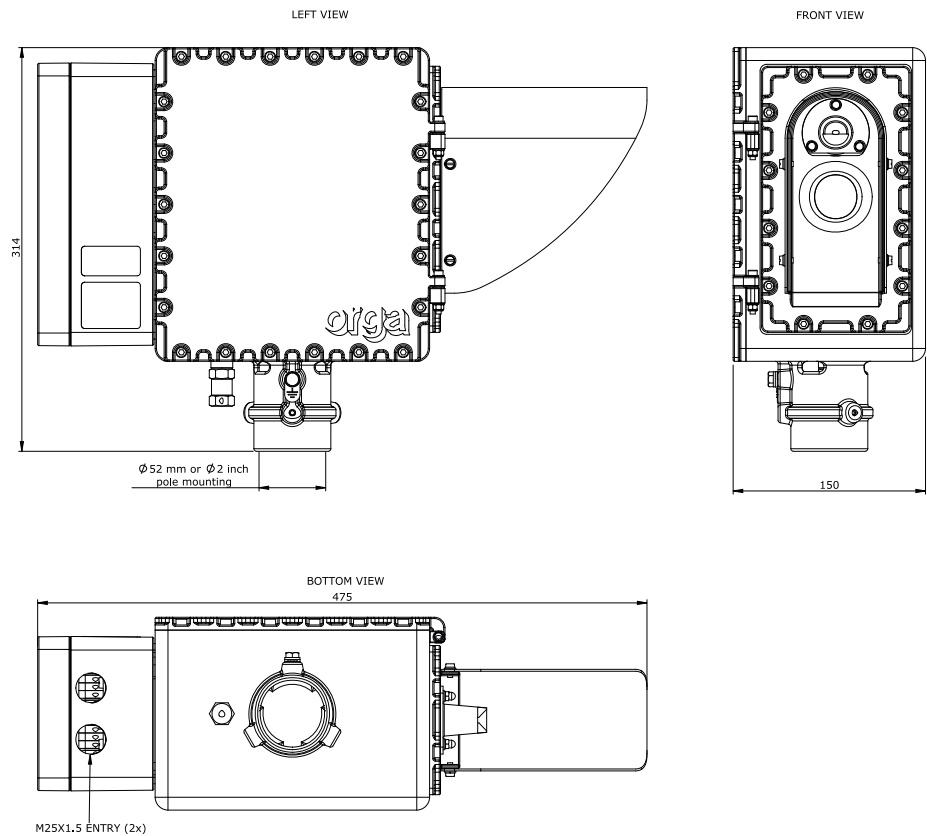
- Dimensions (L x W x H): 475 x 150 x 314 mm
- Weight: 20 kg
- Degree of protection: IP66
- Operating temperature range: -20° C to +45° C
- Designed for pole mounting Ø 52 mm / 2 inches

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

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

## Explosion proof visibility meter / fog detector

Type	Power consumption (AC)	Power consumption (DC)	Power consumption heater	Analogue visibility output	Set points	Digital output	Application
VDX05EX-NON	4W / 8VA	2.5W	2W (4VA)	4-20mA	Set point 1: SPCO contact 2A (non inductive) default set to 1,500 meter Set point 2: SPCO contact 2A (non inductive) default set to 3,700 meter	Digital OrTalk communication bus for the Digital NCCP system	used in combination with modular digital NCCP
VDX05EX-N-DC	NA	2.5W	2W	NA	NA	Digital OrTalk communication bus for the Digital NCCP system	used in combination with Modular Digital NCCP



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