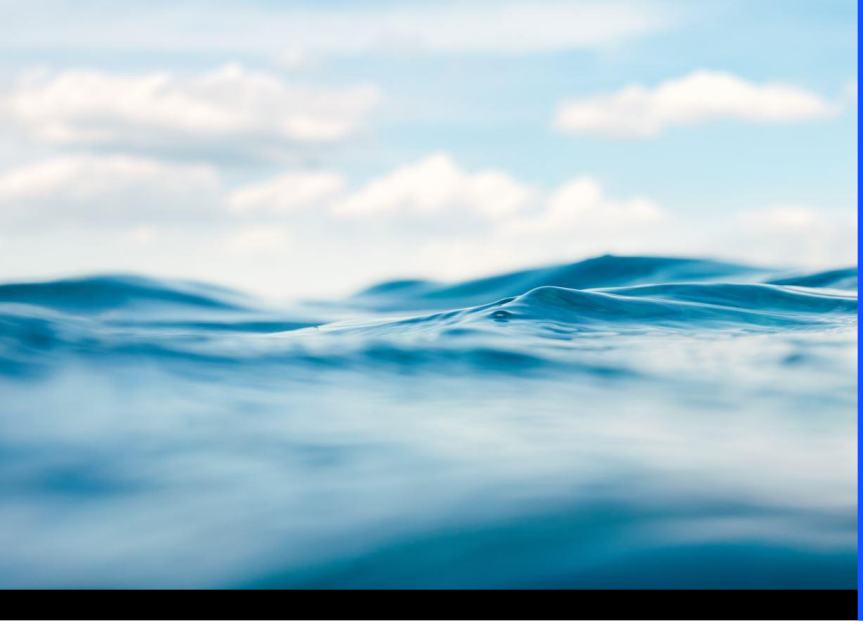


NAXYS TECHNOLOGIES

# SUBSEA PUMP MONITORING

# NAXYS AECM

## Acoustic Electric Pump Monitoring System

By applying a 3-dimensional array of sensing elements, the Naxys AECM measures and analyses the acoustic and electric field generated by a subsea pump/compressor. The sensor operates completely independently, can be installed and replaced without interfering with the subsea machinery and does not add cost, failure modes or complexity to the pump/compressor. Information provided by the sensor ensures early warning if a failure is under development and guides the operator in tuning the operation parameters to extend remaining lifetime. Naxys AECM will also monitor the structure adjacent to the pump/compressor and detect abnormalities like pulsation and vibration in piping.

Trending

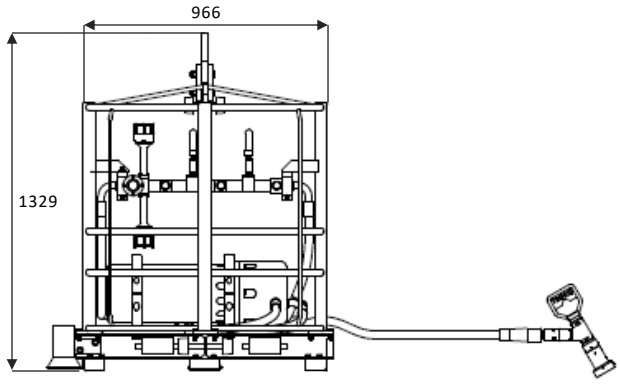
Early warning

Monitor performance

www.naxystech.com
Hegreneset 50 – 5042 Bergen - Norway
sales@naxystech.com

# FEATURES

- Non-intrusive
- Can be placed up to 20 meters from pump
- Provides KPI's and trend analysis:
    - Actual Shaft Speed
    - Power factor (slip ratio)
    - Harmonic vibration levels (1x, 2x, 3x..)
    - Sub-synchronous vibration level
    - Electric drive unit sideband level
- Rotation start/stop confirmation
- Leak Detection (inward and outward)




| Name | Naxys AECM |
|---|---|
| Design life | 30 years |
| Operating temperature range | -5°C to +40°C |
| Operating pressure | Max. 300 bar |
| Weight | Approx. 250kg in air |
| Dimensions | 1750x1000mm |
| Qualification | API 17F 4th edition |
| Testing | API 17F 4th edition |
| Communication interface | Ethernet (SIIS Level 3) |
| Power supply | 24V DC nominal (18 to 34V DC) 25 W |
| Material canister and sensors | Titanium |
| Material protection frame | Steel |
| Method of installation | ROV installable/retrievable |
| Additional functionality | Valve and choke monitoring, transient detection, vibration monitoring |

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