

# NETZSCH

## pMT-Pilot™ Pump Protection and Diagnostic System in one



**motralec**

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The heart of your process. ■

# pMT-Pilot™

## Features and Performance Data



### General

Many users are looking for a simple and reliable system to monitor their pump and process.

#### The solution: pMT-Pilot™

With a piezoelectric sensor, the pMT-Pilot™ continually monitors the structure-borne noise of the pump. Characteristic irregularities which point to an abnormality are detected early and analysed.

### Increase your process safety via

- Current assessment of the state of the pump
- Prevention of process break downs and the avoidance of subsequential damage
- Synchronisation of maintenance work and downtimes
- Optimised life cycle costs
- Mobile and stationary use
- Easy attachment and installation (plug & play)
- Immediate use on every NEMO® pump

### Detection Functions

The pMT-Pilot™ combines the detection functions of various conventional systems in one device. Depending on the chosen model the pMT-Pilot™ detects

- Dry running
- Over pressure
- Cavitation
- Service

### Upcoming Options (via Software Updates)

- Detection of
- Rotor and stator wear
  - Joint damage
  - Seal damage
  - Overheating
  - Changes of the state of the media (given clear change of sound spectrum)

### Technical Characteristics and Capacity Dates

- Data recording and software system run on a PC for pump supervision and control consisting in
- Structure-borne noise sensor
  - Saddle attachment to the stator
  - 5m cable (ATEX certified\*)
  - Data box with signal transformer
  - USB port for PC
  - SPS port

\*) in preparation

### Recording, Analysing and Control Functions

- Graphic display of process state: normal function, service, dry running, cavitation and over pressure
- Data reporting of the last 24 hours in time intervals
- Automatic fingerprint reporting in selected intervals
- Current/continuous reporting of events
- Automatic recording of fingerprints in selected intervals
- Display of functional abnormalities
- Up to four pumps can be detected in parallel via separate data boxes

### Hardware Requirements

- PC with 1 GHz Processor
- 512 MB RAM
- 20 GByte hard disc
- 16 bit colour density
- 800 \* 600 SVGA resolution
- Windows XP/2000
- USB 2.0



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