



20-50% of economy

Significantly reduced risk

Increased uptime and profits

Hose control (THM - TESS Hose Management)

A risk-based friendly maintenance system

THM is easy to use and suitable for everyone, no matter how many hoses you have. You can safely leave the maintenance of your hoses to our professionals.



Inspection survey

Complete data about the comments and the condition of the hose is entered into the database.



Maintenance plan

Consists of intervals for inspection and planned replacement of the hose. Intervals are agreed with the customer based on a risk assessment of the individual hose installation.



ID-tag

Hose is marked with a unique identification number for quick and easy identification, pricing and ordering.



Hose replacement

Hose replacement is based on inspection results and maintenance plan. New hoses updated installation quality and geometry.



Cloud based database

CustomerWEB for maintenance status and management of the hose park. Mobile app for recording maintenance activities - also works offline.



Service that guarantees uptime

Our 02018 service phone is operational 24/7 and ensures the right hose can always be delivered and installed..



HOSES FOR A BETTER WORLD

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Safe operation and reduced costs

Safety

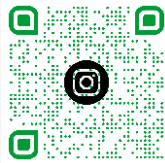
- ✓ Longer uptime
- ✓ Reduced resource usage
- ✓ Correct hose the first time
- ✓ Less risk of hose breakage
- ✓ Extended Life
- ✓ 3 year hose warranty

User friendly

- ✓ Cloud-based services
- ✓ The system also works offline
- ✓ New hose easy to order
- ✓ History of all hoses
- ✓ Simplifies inspection
- ✓ 24/7 service

Environment

- ✓ Minimizes the risk of emissions
- ✓ Documentation for environmental accounts
- ✓ Reduced CO2 emissions
- ✓ Oil and hose return schemes
- ✓ Enhanced HMS
- ✓ Online course



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THM - TESS HOSE MANAGEMENT

THM Service Menu

- ✓ Verification
- ✓ Inspection
- ✓ Hose Replacement
- ✓ Hose Control
- ✓ Maintenance Strategy
- ✓ Stock of Spare parts
- ✓ Emergency hose sets
- ✓ Spare sets of hoses
- ✓ Risk assessment
- ✓ Maintenance agreement
- ✓ Software as a Service
- ✓ Training



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THM uses the same system that controls the particle accelerator maintenance at CERN.

Facts about THM Hose Control:

- < 10 years of operating experience
- < 300 unique customers
- < 900.000 hoses in the database
- < 4 experienced project manager
- < 40 operations - THM



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Risk Based Maintenance Planning

Class/risk	Visual inspection Frequency	Hose replacement (*life in service') Frequency
5	FHAs are not normally suitable in this class	
4	Up to 6 months	Up to 5 years/60 mth
3	Up to 2 years/24 mth	Up to 8 years/96 mth
2	Up to 3 years/36 mth	Up to 10 years/120 mth
1	Up to 5 years/60 mth	As required

TESS Hose Management is based on a risk based approach for the setup of inspection and replacement intervals. The intervals can be set independently per hose, and our customers can use this information to better target risk mitigation measures.

Certified experts conduct Risk Assessments, Classifications and Identification of Opportunities for Risk Reduction in collaboration with the customer's lead technical personnel. Our experienced personnel have long experience with assessing alternative barriers.

Each hose is evaluated relative to factors on consequence and probability.

P3	Class 2	Class 3	Class 4	Class 4	Class 5
P2	Class 2	Class 3	Class 3	Class 4	Class 5
P1	Class 1	Class 2	Class 3	Class 4	Class 5
Scores	C1	C2	C3	C4	C5

Score	Probability	Description
P1	Low	Damage leading to the FHA failing inspection has occurred previously in a very small number of occurrences in the given application.
P2	Medium	Historical records and/or known experience based factors indicate a moderate potential for external damage to the FHA, leading to a failed inspection before the FHA is scheduled for replacement.
P3	Increased	Historical records and known operational or other experience based factors indicate an increased potential for damage to the FHA leading to a failed inspection before the FHA is scheduled for replacement.

Score	Human injury	Production and equipment loss	Environmental impact
C1	No injury	No operational upset, no damage to equipment	No release, or release with negligible damage to environment
C2	Slight injury, non permanent (non lost time incident)	Minor operational upset, minor damage to equipment	Release with minor damage to the environment which should be reported
C3	Severe injury, permanent (lost time incident)	Moderate operational upset, moderate damage to equipment	Release with significant damage to the environment
C4	Death of one person	Major operational upset, major damage to equipment	Release with temporary major damage to the environment
C5	Multiple fatalities	Damage to essential equipment causing major operational loss of containment	Release with permanent damage to the environment

THM Service Menu - Devices



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Total 100+ locations

USA

Houston, TX

Brazil

Macaé, RJ

Hammerfest

Kirkenes

Sandnessjøen

Trondheim

Kristiansund

Ålesund

Herøy

Florø

Bergen

Sotra/CCB

Mongstad

Stord

Aberdeen

Haugesund

Kårstø

Stavanger

Dusavik

Egersund

Kristiansand

Norway

Oslo

Drammen

(Headquarters)

Denmark

Esbjerg

Scotland - UK



Locations
For hose management
and offshore services



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