

sound



temperature

CONDITION MONITORING OF CRITICAL INFRASTRUCTURE

REAL-TIME SOUND AND TEMPERATURE DETECTION

EARLY INDICATION OF RISK



TS-Detector is a supplementary module of T-Complex monitoring system. It is designed for the non-stop remote monitoring of potential failure events that can occur during the operation of machines or during the performing of dangerous processes. System quick identify undesirable changes of monitored parameters and immediately alerts an operator the risk situation. If it is necessary, the module TS-Detector able to operate also as a stand alone system. It is also ready for the cooperation with third-party control systems.

**PREVENTION IS CHEAPER
THAN THE CAUSED DAMAGES!**

TS-DETECTOR - Sound and Temperature Detection



TS-Detector system consist from sound and temperature sensors, which non-stop remote monitor the parameters of critical infrastructure environment, the transmission infrastructure and the central control software, that non-stop evaluates the real measured values compared with the predefined threshold levels.

Monitoring mode

The monitoring mode is fully automatic and requires no operator presence. During the monitoring mode system displays the sound spectrum of live noise from connected remote sound sensors and the temperature value from remote IR sensors.

Automatically detection

In case that the system detects undesirable changes of monitored parameters it immediately trigger an alert for the device operator. Actual alarm status of all detectors and sensors is continuously displayed on the central monitor screen, the operator know exact, in what space is the risk situation indicated. System also display him, what parameter caused the alert.

In combination of TS-Detector system with T-Complex Video Management System can the operator also to look on the picture of corresponding camera. All mentioned informations give operator enough review of situation and help him to right decide about adequate reaction.

Probable causes analysis

The captured data (sound and temperature values) from all connected sensors are continuously recorded and archived by central data storage system. TS-Detector system is also able to perform a post-analysis of recorded sound and temperature values (time trends, replay of records).



The sophisticate post-analyse functions of TS-Detection system allows operator to analysis of all recorded data (sound and temperature). In combination with T-Complex VMS are available also the parallel video recordings. All mentioned informations give operator enough of resources with which he can review the history of situation before the risk event. Mentioned informations help him determine an exact start and very often also a probable cause of an event, that has occurred.



Where you can use TS Detector

TS Detector can be used wherever is a need for early identification of undesirable thermal events, which involve a risk of damage to equipment due to its uncontrolled overheating (equipment failure, unpredictable course of a thermal process, etc.).

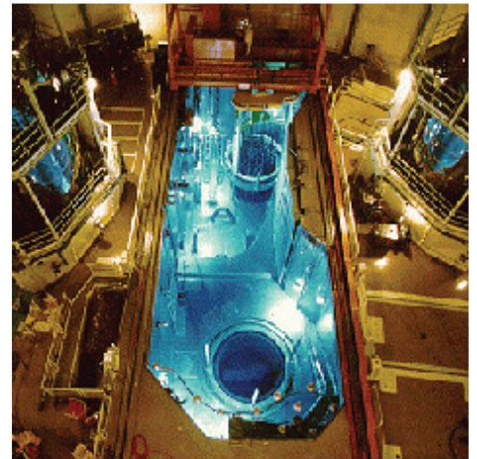
**REACTORS
STEAM GENERATORS
ARMATURES**



**PUMPS
MOTORS
PIPES**



**SPECIAL
EQUIPMENTS
AND AREAS**



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