

1.10.30. TECHNOLOGY OF MONITORING AND DIAGNOSTICS OF ROTOR MACHINES BASED ON ONEPROD 01DB-METRAVIB SYSTEM

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Vibration monitoring and diagnostics has obtained wide spread in the modern practice of technical maintenance in various industry branches, including explosion hazard zones. OneProd 01dB-Metravib system stands out favorably by the common software (XPR) for portable (offline) instruments and stationary (online) systems. Software product possesses with very convenient visualization providing user with possibility to control within the single window screens and parameter configurations and to analyze data (presented in the tabular form, when every cell opens new informational window with a click of mouse). Operation with software is simplified and accelerated considerably for the account of the built-in database on bearings, library of configured machines and extended cut/copy/insert, etc. function.

During data acquisition by means of portable instrument Movipack, analysis can be performed following data acquisition ("flash" mode) when operator moves to another measurement point. As a result, it is possible to accelerate operation in the workshop, especially when large number of signal parameters to be analyzed in every measurement point is prescribed in a route.

Two-channel option allows various reciprocal functions, transit characteristics, etc. to be obtained taking into account the large volume of the instrument's built-in memory. "Defect-factor" defining the state of rolling bearings in comparison with known threshold settings is innovative and very useful in practice one. Elaborated by the company technology makes it possible to use electric parameters in parallel with vibration ones for diagnostics of electric machines, which, in combination with temperature data, improves significantly the trustworthiness of a diagnosis. Multi-channel and multi-functional controllers PV6 b MVX allows any required monitoring system to be configured.