

# Put machine protection and condition monitoring on the skid

## Benefits

- Combine protection and condition monitoring
- Suitable for hazardous and non-hazardous areas
- Reduce installation and commissioning costs
- Eliminate bulky cabinets and signal cables
- Mount directly on machine skids
- Reduce energy consumption
- Integrate with SKF @ptitude Monitoring Suite software

## Typical applications

- Gas and steam turbines
- Compressors
- Generators
- Pumps
- Fans



SKF DMx certifications include:

- European (ATEX), Zone 1, connecting to sensors in Zone 0 (Ex ib IIC)
- International (IECEX), Zone 1, connecting to sensors in Zone 0 (Ex ib IIC)
- North American (NEC) Class 1 Division 1, Groups A, B, C, D

## SKF Multilog On-line System DMx combines intrinsically safe, vibration and axial position capabilities in a single device

Traditionally, the complexity of vibration measurements has kept continuous monitoring system electronics in the control room, away from machine skids. While the sensors alone have been the only intrinsically safe option, the system as a whole has had drawbacks.

The 19" rack-mounted systems require bulky cabinets to be placed in a safe area some distance from the skid, and many hard-to-manage, low-voltage cables to send signals to and from the control room. Both requirements increase installation and maintenance costs.

And if the rack is not included with the skid, testing and acceptance must be performed at the factory, then again at the installation site, substantially increasing commissioning costs. The SKF Multilog DMx eliminates these issues and expenses, a benefit to OEM's and end users.

### Breakthrough functionality in Zone 1

Developed in conjunction with intrinsic safety experts Pepperl+Fuchs, the SKF Multilog DMx is the first-ever fully featured API-670 class monitor suitable for locating in Zone 1 and conventional areas. Four-channel vibration monitoring and on-board proximity probe drivers allow processing requirements, from transducer to dynamic data, to be fulfilled safely on the machine skid.



### Reduced costs, increased capabilities

Along with combining protection and condition monitoring in one device, the SKF Multilog DMx features a small design footprint and distributed architecture. The result? No more bulky cabinets, and the ability to offer end-users additional troubleshooting services without specialized analysis equipment.

The power and heat restrictions of intrinsic safety also greatly reduce energy consumption. In addition, by performing monitoring processing on the machine, close to the sensors, the SKF Multilog DMx replaces many low-voltage signal cables with one or two digital protocol cables. The system also integrates with SKF @ptitude Decision Support software, and is compatible with a range of SKF portable and on-line measurement devices.

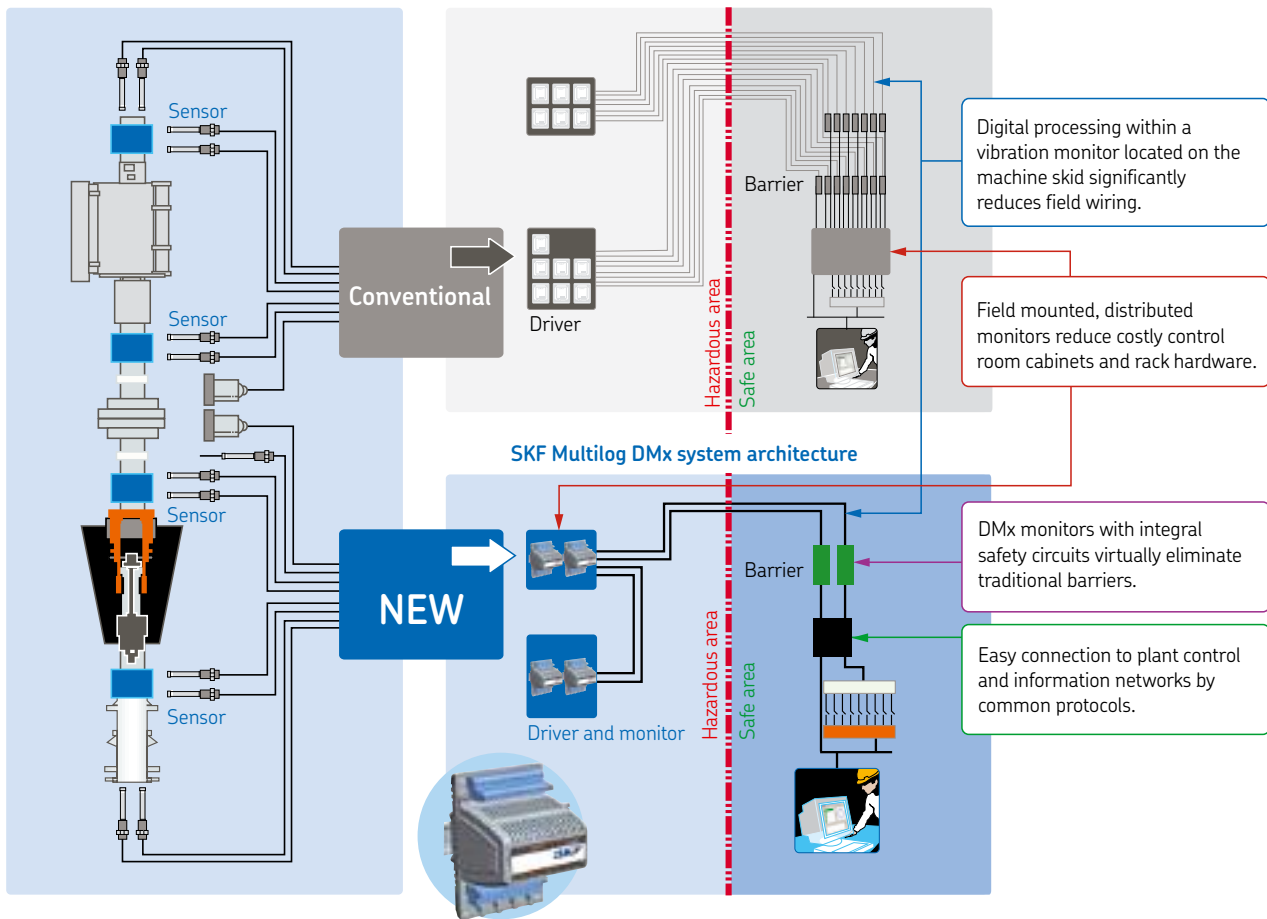


## The SKF Multilog DMx system can save space, time and money compared to a conventional rack system

The diagram below illustrates the advantages of the SKF Multilog DMx System architecture compared with traditional rack-mounted systems. Manufacturers and end-users can achieve savings with the SKF DMx solution versus the 19" rack system. See chart at right for sample savings.

Cost components	Mfr. savings	End-user savings
Material	30%	31%
Installation time	92%	92%
Testing time	80%	80%
Calibration time	n/a	50%

\*Calculation assumptions: Gas compressor, 20 proximity probes, hazardous area installation, loop from transducer to DCS. Resulting savings calculated to be approximately \$20,000 using these assumptions.



For more information about the SKF Multilog On-line System DMx and other solutions for the oil and gas industry, visit [www.skf.com/oilandgas](http://www.skf.com/oilandgas) or contact your SKF representative.

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