

System 1™ Support for 1701 FieldMonitor™ Machinery Protection System

Version 4.0 of our System 1™ software (see page 18) now lets you easily include your FieldMonitor™ Machinery Protection System as a source of waveform, alarm event, trend, and other data – just as with other supported hardware, such as 3300 and 3500 Series Machinery Protection Systems. This means that our FieldMonitor platform can be used not only to *protect* machinery – it can be used to cost-effectively *manage* machinery as well.

Similar in concept and functionality to our 3500/22M TDI module (see page 12), our 1701 System employs a special “zero footprint” module (the FieldMonitor Management Interface Module or FMIM) which collects data from the 1701 monitor modules and supplies the collected data to System 1 via a single Ethernet

cable. And, like our other machinery protection systems, the

protection and condition monitoring functions of 1701 are physically integrated yet functionally segregated from one another. This not only saves valuable space and reduces installation costs, it ensures that the condition monitoring functions of the 1701 platform can never interfere with or compromise 1701’s vital machinery protection functions.

The FMIM occupies a single slot on the 1701 terminal base and does not increase the physical mounting space already allocated to the 1701 system. The FMIM can be provided with new 1701 Systems, or it can be easily retrofit in the field to existing 1701 Systems. Simply insert the FMIM module into the 1701’s terminal base and run an Ethernet cable (or wireless link) between the connector on the FMIM and the System 1 data acquisition computer. No special external boxes are required, nor is cumbersome point-to-point wiring of transducer signals. ☺

The 1701 FieldMonitor™ System

The FieldMonitor™ Series puts our most popular machinery protection measurements into a field-mounted, distributed I/O (input/output) architecture compatible with numerous types of distributed process automation and control systems. Based on Allen-Bradley's popular Flex I/O™ line of network adapters and process I/O modules, 1701's distributed architecture reduces installation costs and is specifically designed to meet the needs of machinery packager customers and others who want their machinery protection system mounted at the machine skid and in a form factor that is similar to remote I/O terminal blocks. This approach allows the FieldMonitor platform to utilize single-cable communications directly with machine control systems, eliminating the need for point-to-point wiring of individual monitor system channels.

This approach can result in installation cost savings of up to 30%, and is an ideal fit where the features and functions of a traditional rack-based system, such as our 3500 Series, is not needed.

Supported protocols include:

- Modbus®
- Profibus DP™
- DeviceNet™
- ControlNet®
- Allen-Bradley Remote I/O
- others

For more information, see our Third Quarter 1998 issue of ORBIT (page 21) for an informative, feature-length article on the FieldMonitor System, available at www.bently.com in the ORBIT archives section. Or, contact your local Bently Nevada Sales Professional. ☺

