Which is right for you?

For many of you, the 3500 has been the premier turbomachinery protection system choice for decades. For others, you may have heard about the reputation of the 3500, but felt it lacked some key feature you needed for plant-wide asset monitoring. Here is a quick comparative overview highlighting some key enhancements with Orbit 60 helping you make the best decision for your application and organization overall. For more information, please visit bently.com/orbit60.

### 3500

- Centralized deployment architecture
- Size: 6U (typically 2-3 in a cabinet)
- Single module (TDI) for Configuration access and Condition Monitoring requiring bidirectional data flow
- Only front modules are hot-swappable
- Wide range of unique application-specific cards
- Each processor supports the 4 channels on that module
- Single chassis architecture: monitoring functionality is limited to the card that the sensor is connected to and module to module communication is limited to a single chassis
- Supports 4 Keyphasor inputs
- Publishes sensor data to the control system
- No status indicators on I/O (rear) side of rack
- Electro-Mechanical relays
- Modules are designed for specific functions
- External display only (VGA)
- Dynamic vibration channel fixed and limited to 800 lines of spectral resolution
- Optimized for fluid Film Bearing Machines
- Jumper-configurable input modules
- No front-end rack health telemetry data

### Orbit 60

- Centralized and distributed deployment architecture
- Size: 3U (4+ in a cabinet)
- Segregated Configuration and Condition Monitoring modules (SIM and CMM)
- All modules are electrically hot-swappable (auto configuration in future release)
- PAV card alone can cover 90% of typical inputs, allowing greater flexibility and parts consolidation
- 50%+ reduction in spares requirement
- Any input channel can have redundant processor providing multiple levels of redundancy (increase availability)
- Distributed deployment: multiple modules can communicate within the chassis and among other chassis through bridging (upcoming)
- 50%+ reduction in field wiring requirements for a new project
- Any dynamic input channel can be used for Keyphasor input
- Architected for bi-directional control system communication (upcoming)
- LEDs for each channel with detailed health data covering module, wiring, and transducer (front and rear)
- Electro-Mechanical and Solid-State relays
- Modules are architected to make all data available for a broad range of applications
- External networked display or integral display (upcoming)
- Configurable dynamic vibration resolution (3200+ lines)
- Optimized for all machine types including REB
- Jumperless, channel-level configuration, native support for positive voltage powered transducer types
- Telemetry data available for device health monitoring and diagnostics