

EVA-625



Ride Quality Measurement & Analysis for the Elevator/Escalator Industry

Physical Measurement Technologies' EVA-625 Elevator Vibration Analysis system and **EVA Vibration Analysis Tools software** has quickly become the global standard for the measurement of elevator and escalator ride quality, and vibration & sound. Designed to meet international standards for the recording and analysis of elevator and escalator vibration and sound, only the EVA system allows all elevators and escalators to be measured, analyzed, and documented absolutely, easily and at a Very Low Cost. Through continuous refinement & enhancement, the EVA system remains the product of choice for the measurement and analysis of elevator/escalator ride quality, and vibration & sound, while PMT has become the world's number 1 supplier of high accuracy instrumentation for the vertical transportation industry.

- Quantify Elevator/Escalator ISO Ride Quality
- Measure Acceleration/Deceleration, Speed, Jerk
- Identify & Locate Rail & Joint Misalignment
- Diagnose Bad Roller Guides
- Document Pre/Post Modernization Changes
- Troubleshoot Sheave, Ropes, Counterweight
- Assess Drive & Controller Function
- Document Elevator Performance Baseline
- Year to Year Elevator Operation Comparison



Elevator & Escalator System Quality Control, Diagnosis, & Inspection Elevator ride quality is a first indicator of quality design, installation, and service. The EVA system includes powerful tools to assist in quality improvement in all areas of the elevator mechanical and control system. The highly accurate response of the EVA system, and the analysis capabilities offered by the EVA Vibration Analysis Tools software allow technician to engineering level personnel to rapidly identify problem areas and perform corrective actions. Only the EVA system provides the ability to measure the vibration and sound that people feel and hear and analyze the broad-band vibration and sound that is the result of the function of all dynamic aspects of the elevator system. With a little practice, problems with roller guides, rail joints, motor control systems, and other dynamic elements can be identified in minutes and repairs targeted precisely. Quality of installation and service can be improved dramatically. Because of the simplicity of the EVA system and the information that is returned, the EVA-625 offers unmatched capabilities as an inspection and fast survey tool. The condition of the elevator can easily be compared year after year.

Field Operations with a Field Tough Instrument - The EVA system is particularly easy to operate, both in the field and in the office. About the size of a notebook computer, operation is simple and fast. The system can be configured for use on site, without having to carry a PC with you. Simply place the EVA-625 on the floor of the elevator, turn it on, press the record switch, and 'take a ride'. The data is automatically stored in non-volatile memory with room for over 700 seconds of data. An entire bank of elevators can be recorded in minutes. The EVA system is rugged enough so that it can go anywhere at anytime with few concerns. Shipping and field operations with a high accuracy instrument are no longer a worry.

Removable 3-Axis Acceleration Sensor - An important EVA-625 design innovation is the removable triaxial accelerometer package (RSB). It can be left within the EVA case for simple ride quality analysis, or the sensor can be removed for attachment to specific elevator mechanical elements. This allows isolated measurements of the vibration response of specific elevator structural members and components such as roller guides, motors, and gear boxes.

Warranty & Support - The EVA system is provided with a full one year warranty. Software updates will be available to each registered user as new versions become available. PMT is also establishing a world-wide distributor network to provide quick & reliable local support for the EVA system. PMT will provide unlimited telephone, fax support to all EVA owners at no charge.

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