

AMS 2140 Machinery Health™ Analyzer



SAFETY IS NOT WORTH RISKING – TRUST SAFETY-CERTIFIED TECHNOLOGY FROM EMERSON

EMERSON'S AMS 2140 MACHINERY HEALTH ANALYZER IS CERTIFIED FOR USE IN COMBUSTIBLE DUST ENVIRONMENTS

Emerson has the only portable analyzer on the market today with dust certification for Class II, Division 2, Groups (F, G).

If you are in a grain or carbon processing industry that can generate explosive concentrations of dust, or if you manufacture or use any materials (and their by-products) that can become a dust, having the right tools can be critical to your safety.

A dust explosion can cause major damage to structures, equipment, and personnel from violent overpressure or shockwave effects. Sometimes, secondary explosions cause even more damage than the first.

Combustible dust explosion hazards exist in a variety of industries and applications, including:

- Grain Processing (elevators, corn syrup, ethanol, pet foods, etc.).
- Food Production (such as candy, sugar, corn chips, spice, coffee creamer, starch, flour, and feed).
- Chemical Manufacturing (such as rubber, plastics, pharmaceuticals).
- Recycling Facilities (such as paper, plastics).
- Coal-Fired Power Plants.

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WITH SO MUCH AT STAKE, WHY WOULD YOU RISK USING ANOTHER VIBRATION ANALYZER?

Emerson's AMS 2140 analyzer takes vibration measurements with simultaneous four-channel plus phase data collection and unique impact detection capabilities for the earliest indication of bearing and gearbox degradation. And, the AMS 2140 has numerous hazardous area certifications available, including:



CSA Class I, Division 2, Groups (A,B,C,D); T4



CSA Class II, Division 2, Groups (F,G); T105C



IEC Ex Zone 2: Ex ic [ic] IIC T4 Gc(-20°C ≤ Ta ≤ 50°C)



ATEX Zone 2: II 3G
Ex ic [ic] IIC T4 Gc(-20°C ≤ Ta ≤ 50°C)

THE AMS 2140 IS DESIGNED FOR EASE OF USE

- Four-channel data collection makes data collection and machine trouble shooting easier and faster.
- Understand shaft movement and transient state of machinery better with four-channel diagnostics.
- Extended battery life allows you to cover an entire shift (and more) without the need to re-charge.
- Full-color touchscreen enables easy navigation and detailed field analysis) – and can be used with work gloves.
- Large screen auto-adjusts based on ambient light – so you can see the information you need no matter where you are.

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AMS

- Built for comfortable, single-hand operation with thin profile.
- Spend less time in harsh environments with one of the fastest data collection speeds on the market.
- Advanced analysis tools, including cross-channel and transient analysis, aid identification of root cause.
- In-field precision balancing.
- Comfortable shoulder strap and built-in stand make the analyzer easier to use.
- Bluetooth and Wi-Fi wireless communications for added convenience.

SELECT AN AWARD-WINNING ANALYZER.

Emerson's award-winning analyzer was Plant Engineering's 2014 Product of the Year and won the 2015 Frost & Sullivan Product Innovation Award for Portable Vibration.

YOUR SAFETY CONCERNS ARE OUR SAFETY CONCERNS.

With all of its safety certifications, you can be confident using your AMS 2140 across a wide range of equipment, including variable speed machines, complex gearboxes, slow speed equipment, turbomachinery, sleeve bearing machines, and reciprocating compressors. You will know your safety concerns are our safety concerns.

For more information, contact your local Emerson representative.

