ICP DAS 泓格科技

迴轉機械設備預兆診斷的 Turn-key 解決方案

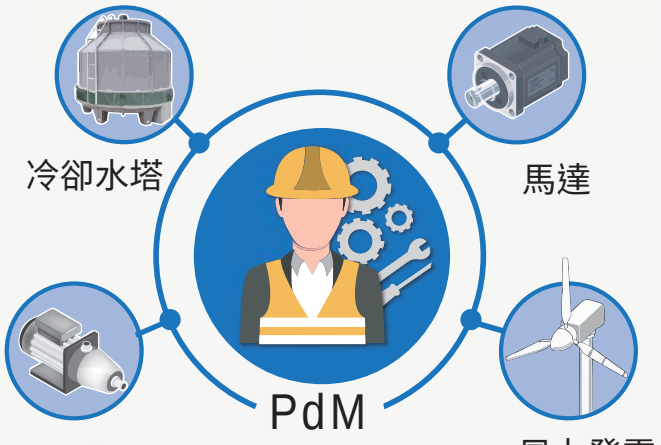
AI 級振動解析，產生綜合健康指標與 17 項故障指標，讓設備診斷零門檻

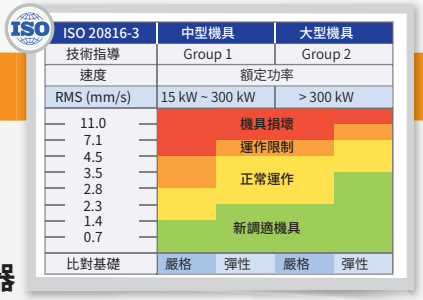
PET-AR401

採集

分析

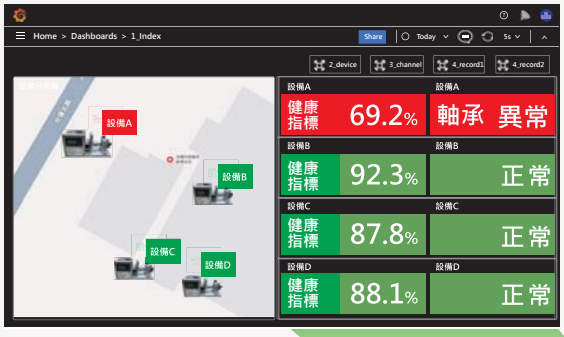
診斷



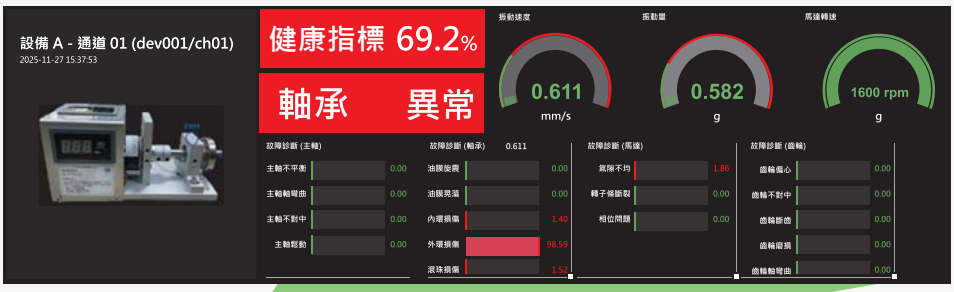


產品特色

- **自動分析引擎**
  不需振動專業知識，系統自動完成時域與頻域判讀
- **一鍵產生健康指標**
  直接呈現設備狀態好壞，快速決策、不再猜測
- **17 項故障因子模型**
  精準指示可能問題來源，包括軸承、對中、不平衡、鬆動等
- **符合 ISO 20816 標準，提供設備健康評級**
- **支援 4 通道 IEPE 振動感測器**
- **提供 Ethernet 介面，Modbus/TCP & Raw Data**



▲ 綜合健康指標



▲ 17項故障指標

類型	故障因素
軸承	油膜旋震/晃盪、內環/外環/滾珠損傷
主軸	不平衡/軸彎曲/不對中/鬆動
齒輪	偏心/不對中/斷齒/磨損/軸彎曲
馬達	氣隙不均/轉子條斷裂/相味問題

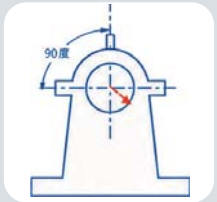
輸入診斷參數

(馬達：轉子條數等．齒輪：齒數．軸承：截止頻率等)

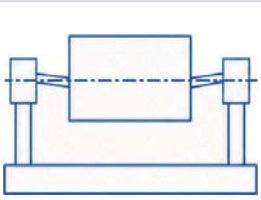
17 種故障因素

主軸故障

不平衡



軸彎曲



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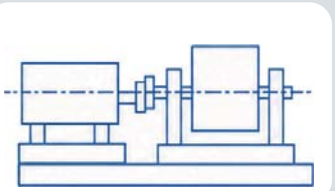
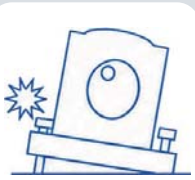
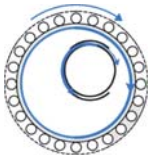


鬆動



軸承故障

油膜旋震

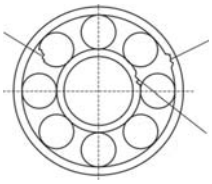


油膜晃盪

滾珠損傷

外環損傷

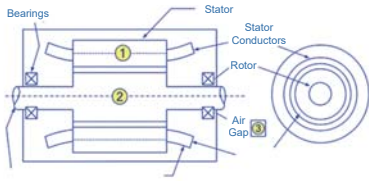
內環損傷



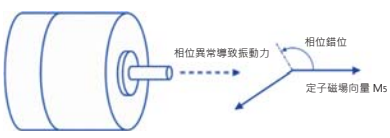
馬達故障

轉子條斷裂

氣隙不均

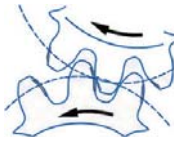


相位錯位



齒輪故障

磨損



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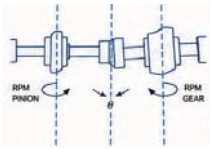
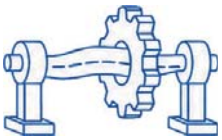
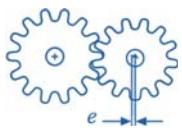


斷齒

軸彎曲



偏心



產品選型指南

振動數據採集分析模組

PET-AR401	
軸數/類型	4/IEPE外接式加速規
輸入範圍	+/-10V
解析度/取樣頻率	24-bit / 128 kS/s
激勵電流	4mA
網路介面	1 * RJ -45，10/100 Base -TX, PoE
輸入電壓/功耗	+12 ~ +48 VDC / 2.6 W

PS: 需選購 PMS 軟體授權
PMS-1 License ~ PMS-4 License: 支援 1 ~ 4 軸故障診斷

IEPE 單軸加速規

iSN-701-F15-L030
量測範圍 80 g，靈敏度 100 mV/g，響應頻率 15 kHz，含 3 米纜線 (RoHS)
iSN-701-F15-L060
量測範圍 80 g，靈敏度 100 mV/g，響應頻率 15 kHz，含 6 米纜線 (RoHS)

其他加速規選用規則

激勵電流	< = 4mA
量測範圍 x 靈敏度	量測範圍 (g) x 靈敏度 (mV/g) ≦ 10V
電壓範圍	量測範圍 (g) * 靈敏度 (mV/g) + 偏壓電壓 (V) ≦ 20 V
響應頻率	最大頻率 (Hz) x 5 < 模組採樣率 (Hz)

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