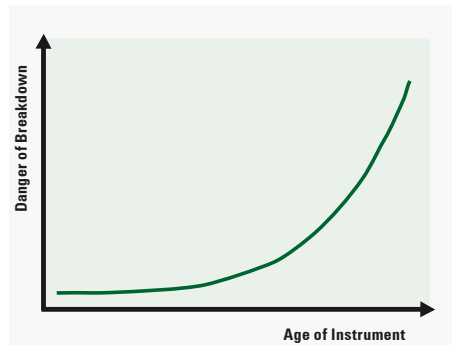




M2M for SPECTRO ICP SPECTROMETERS

**Maximize the return on your investment.
Maximize system uptime.**

AMECARE M2M (Machine to Machine) is a unique and powerful service offered by SPECTRO to prevent instrument breakdown through continuous remote monitoring of warning and error messages generated by your instrument's critical components. In combination with AMECARE Preventative Maintenance, breakdown risk can be dramatically reduced.

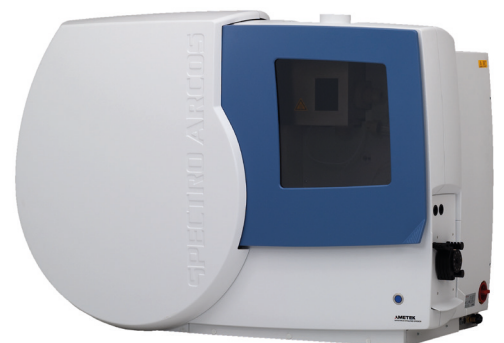


Without proper maintenance and system component monitoring the likelihood of a breakdown increases exponentially with the age of an instrument. AMECARE drastically reduces the risk of breakdown and extends the life of the instrument.

SPECTRO's instruments are outfitted with intelligent diagnostic capabilities that deliver information about critical-to-system component integrity. Using this system, at the basic level, the cause of an instrument breakdown can be quickly isolated and identified, speeding system recovery substantially. More importantly, the diagnostic system relays information that can be used for preventative intervention.

AMECARE M2M leverages this information to react to component degradation, preventing failures and preventing downtime. When the SPECTROmeter is connected to SPECTRO's central M2M server, discrete hardware status information from the diagnostic system is transmitted in packets, at regular intervals. On the receiving end the M2M server analyzes the incoming notification packets. Should a flagged notification indicating component degradation or failure be recognized, your local SPECTRO service organization will be alerted and you will be contacted.

AMECARE M2M transmits only the system hardware and the iCAL process relevant information. Analytical methods and analytical results are excluded, to ensure customer data confidentiality. AMECARE M2M is unidirectional and secure: Encrypted system hardware and iCAL process relevant information can only be transmitted to the M2M server from the instrument. Information, other than the connection handshake, is not transmitted to the instrument from the M2M server. This ensures instrument encapsulation for maximum system integrity.



M2M for SPECTRO ICP SPECTROMETERS

SPECTRO ICP Spectrometers

AMECARE M2M

- Continuous monitoring of critical-to-system components
- Identification and flagging of component maladjustment, degradation and failure
- Notification of local SPECTRO service for proactive support

AMECARE M2M keeps SPECTRO informed of your instrument's status. Profit from these important resulting benefits:

- Decreased risk of breakdown
- Faster support response
- Reduced repair times



Ensuring peak performance and maximum return on investment over the life of your equipment.

We will deliver this by

- Proactively maintaining your equipment to maximize availability.
- Optimizing solutions to meet your unique applications.
- Enhancing user skills by providing access to product and application experts.



www.spectro.com

Below is a portion of the warning and error messages generated by critical-to-system components that AMECARE M2M for SPECTRO's ICP Spectrometers monitors (where applicable, component messages monitored may vary depending on the ICP model):

Plasma Generator, torchbox and sample introduction system:

Monitors plasma ignition & parameters, cooling & exhaust flows, argon pressure and flows, interlocks, nebulizer flow, generator temperature, voltages & currents

Optical System:

Monitors optical system temperature and UV-PLUS purifier status/time remaining

iCALization process:

Monitors status of iCAL, the leading indicator of the instrument's general health

Instrument power supplies, readout and other electronic components:

Monitors for maladjustment, signal failures and component failures

Available for:

SPECTRO ARCOS FHE12 / FHS12*

SPECTRO ARCOS 165 FHE16 / FHS16*

SPECTRO ARCOS FHE22 / FHS22 / FHM22*

SPECTRO ARCOS 160 FHE26 / FHS26*

SPECTROBLUE FME16 / FMS16*

SPECTROBLUE FME26 / FMS26 / FMT26*

SPECTROBLUE FME36 / FMS36 / FMT36*

SPECTRO GENESIS FES17*

SPECTRO GENESIS FEE17*

SPECTRO MS MSS01*

*Software version 6.01.0943 and higher

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