



The BAM-1020 Particulate Monitor recently passed the requirements as PM_{2.5} Equivalent Method according the newest European Equivalency Testing Guidance¹⁾.

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The BAM-1020 is now carrying approvals needed for measuring various particulate size fractions in Europe and US. The BAM-1020 obtained the US-EPA PM₁₀ Equivalency in 1998 (EQPM 0798-122)⁵⁾. It passed the European EN12341 Equivalency testing Procedure for PM₁₀²⁾ in 2006 and became accepted method in UK and Germany^{3,4)}. Consequent improvements of our instrument lead to the first US-EPA PM_{2.5} Equivalency approval for continuous monitors in the industry in 2008 (EQPM 0308-170)⁵⁾. The BAM-1020 holds also the first and as of now only approval for the continuous measurement of the PM_{coarse} size fraction in the industry in US (EQPM 0709-185)⁵⁾.

Recently we finished a 2 year test program with various test sites in United Kingdom and Germany, performed jointly by Bureau Veritas, UK and TUEV Rheinland, Germany to obtain the PM_{2.5} Equivalency according the newest European Equivalency Testing Guidance¹⁾ The resulting test report was just accepted by the German designation authority (see letter TUEV Rheinland from May 6th,2010) and the formal publication of the approval is expected to be printed in the German Federal Register within the next weeks. The British MCERTS Approval is applied for in conjunction with the German Approval and should be also available within the next 2-3 Month.

References:

- 1) Guidance: "Demonstration of Equivalence of Ambient Air Monitoring Methods" Report by an EC Working group on Guidance for the Demonstration of Equivalence - English version of July 2009
- 2) EN 12341 1998 Air Quality – Determination of the PM₁₀ fraction of suspended particulate matter – Reference method and field test procedure to demonstrate reference equivalence of measurements.
- 3) Report on the suitability test of the ambient air quality measuring BAM-1020 with PM₁₀ pre-separator of the company MetOne Instruments Inc. for the measured component suspended Particulate Matter PM₁₀.
(TUEV Report: 936/21205333/A from December 6th 2006)
TUEV Rheinland Immissionsschutz und Energiesysteme GmbH, Cologne, Germany
- 4) UK Equivalence Programme for monitoring of Particulate Matter
(BV/AQ/AD202209/DH/2396 from June 5th 2006)
Bureau Veritas, London, UK
- 5) List of Designated Reference & Equivalent Methods -- March 16, 2010
(52pp, 344k) **US-EPA Web:** <http://www.epa.gov/ttn/amtic/criteria.html>