

RESEARCH AND STANDARDISATION

RESPONSE FORM for Standardisation groups



To contribute to *EMPIR - the European Metrology Programme for Innovation and Research* *

Objective: to collect standardization needs and suggestions to develop research projects in testing and measurements for the upcoming EMPIR calls in 2020

In the frame of the between CEN, CENELEC and EURAMET, CEN and CENELEC have been invited by the EURAMET Management to put forward their **testing and measurement needs in research** for consideration by metrology institutes for future calls under EMPIR.

Relevant technical groups (sector fora, advisory boards, coordination groups, TCs, WGs...) **are invited to contribute with**

- a short introduction or an overview paper of their unaddressed standardization needs for testing and measurement, and
- a contact person (secretary, chair, convenor, liaison officer, etc.) whom proposers for the Potential Research Topics can contact,

by using this Response Form and send it at :

STAIR EMPIR secretariat, Mr Ortwin Costenoble: empir@nen.nl

Deadline for the consultation: **13 December 2019**.

Proof of need by the TC/SC is highly recommended for a successful submission.

Source of the identified need (identification of TC, WG, etc, incl. title)	<input checked="" type="checkbox"/> CEN/TC 264 'Air Quality'
European entity responsible for submission of the need	CEN/TC 264 'Air Quality'
Person that can be contacted for more detail	Rudolf Neuroth Neuroth@vdi.de +49 211 6214-544 Germany
Unaddressed need (short description)	Harmonisation of Proficiency Testing Across a European Infrastructure of National Stack Simulator Facilities to Ensure Consistency of Emissions Measurements and Documentary Standard Testing/Validation Emissions from stacks regulated by the Industrial Emissions Directive (and related documents) are carried out by what are known as Standard Reference Methods (SRMs). These are CEN documentary standards (providing measurement method, for example, for NO _x , CO, SO ₂ , HCl) with special status as they are referred to, or passed into, national member state legislation. The use of these documentary

	<p>standards is mandatory and in principle this system of standards should ensure comparability of data across Europe and consequently consistent enforcement of emission limits at industrial processes. However, the key missing element is harmonised proficiency testing (PT) of the providers of these measurement services. There currently exists national stack simulator facilities in many member states (e.g. Italy, Germany, France, Belgium, UK) and more are being built. However, the proficiency testing schemes based on these national facilities is standalone and despite all participants (participation in many countries is mandated by the national regulator) employing the same SRMs the test gases generated, and assessment of performance is not harmonised. Given all measurements made with the SRMs need to comply with harmonised uncertainties (found in the Industrial Emissions Directive) this lack of PT harmonisation is a clear gap in the quality assurance framework. This risks a lack of consistency in the quality of emission measurements being carried out across Europe and stack testing organisations having to meet differing performance expectations in some member states than others, for what are fundamentally the same measurements.</p>
<p>Further explanation of need (TC business plan, road map, formal decision, work item, etc.)</p>	<p>An important further point is that these stack simulator facilities have become an integral part of both testing the performance of SRMs to enforce increasingly stringent emission limits as legislation moves forward and for validating new SRMs developed under EC mandate for new emission species (e.g. an SRM for formaldehyde has been requested). Clearly, data on the performance and validation of SRMs across this European infrastructure as well as PT results must be comparable if pollution to atmosphere is to be both tracked and reduced from large industrial processes.</p> <p>To this end CEN/TC 264/WG 45 'Emissions – Proficiency testing schemes' has been created and tasked with bringing the desired harmony. EMPIR support is needed to help develop and better characterize the European infrastructure of national stack simulators, work towards harmonization with demonstrator PT runs across different facilities, and help fund national expert participation in drafting this important documentary standard under WG45.</p>
<p>Enclosures</p>	<p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>

*See more information at [EMPIR website](#)
[CEN/CENELEC website "Standards and metrology"](#)