



**Forum: Metrology – Trade Facilitator
Request for support**



VENEZUELA

Core Problem:

Insufficiency for prototype approval in the following priority areas:

- 1 Automatic non-invasive sphygmomanometers;
- 2 Analysers and monitors of electrical energy conditions;
- 3 Diaphragm gas meters.

Significance of the problem:

- 1) In the case of automatic non-invasive sphygmomanometers, most models have been refused. Clinical and electronic simulation testing has been undertaken for type approval, but in most cases, high standard deviation has been found. We have also found many models with excessive errors.

According to Venezuelan metrology laws, models from different countries which have been refused approval cannot be sold in Venezuela. At the present, only few models have been approved.

Our technicians and physicians have been working for two years in this field.
- 2) In the case of analysers and monitors of electrical energy conditions, national policy is to guide and regulate the electrical energy suppliers in order to guarantee the quality of the electrical power supplied to the population and to industry. According to new laws, static and transitory variations (black outs, brown outs, flicker, sag and swell) must be evaluated.

At the moment, we are looking for a technical solution to undertake the type approval and periodic verification of commercial analysers according to ISO-IEC 61000-4, 61000-7, 61000-15 and 61000-30.
- 3) For diaphragm gas meter approval our country current has an old "branch and bells" system.

At the moment, national policy is to replace the gas cylinder system with a direct gas system. In this case, diaphragm gas meters must be installed.

For type approval and periodic verification, our country has old branches and bells. We are working on the recovery and characterization of the bells and the branch. Type approval will be according to the appropriate OIML Recommendation.

What is needed:

In all cases we need:

- Coaching and training in the application of OIML Recommendations or other international standards to type approval testing (sending of experts and visits to other NMIs);
- Technical support in the selection of equipment and standards;
- Benchmarking with our peers.

Contributions:

Whom to address:

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