World Academy of Science, Engineering and Technology
International Journal of Materials and Metallurgical Engineering
Vol:12, No:07, 2018

Software Improvements of the Accuracy in the Air-Electronic Measurement Systems for Geometrical Dimensions

Authors : Miroslav H. Hristov, Velizar A. Vassilev, Georgi K. Dukendjiev

Abstract : Due to the constant development of measurement systems and the aim for computerization, unavoidable improvements are made for the main disadvantages of air gauges. With the appearance of the air-electronic measuring devices, some of their disadvantages are solved. The output electrical signal allows them to be included in the modern systems for measuring information processing and process management. Producer efforts are aimed at reducing the influence of supply pressure and measurement system setup errors. Increased accuracy requirements and preventive error measures are due to the main uses of air electronic systems - measurement of geometric dimensions in the automotive industry where they are applied as modules in measuring systems to measure geometric parameters, form, orientation and location of the elements.

Keywords : air-electronic, geometrical parameters, improvement, measurement systems
Conference Title : ICAMTIE 2018 : International Conference on Advanced Materials, Testing and Information Engineering
Conference Location : Zurich, Switzerland
Conference Dates : July 30-31, 2018