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AUTOMATION MEASUREMENT OF INTRA-ABDOMINAL PRESSURE

ABSTRACT *The article deals with the design of capacitive pressure sensor for automated measurement of intra-abdominal pressure by a non-invasive method. A capacitive pressure sensor consists of a glass tube with evaporated thin film electrodes. The capacity change is given by the level change of displaced fluid in the tube. For capacitive sensors with different inner diameter of tubes calibration curves were experimentally found. A capacitive sensor is a subpart of an automated measuring system for clinical application of intra-abdominal pressure measurement.*

Keywords: *automation, measurements, capacitive pressure sensors, calibration, intra-abdominal pressure.*