Title: DEVICE FOR MEASURING A LAYER THICKNESS AND A METHOD FOR MANUFACTURING SAID DEVICE

Abstract: Device for measuring thickness of a layer or a coating layer on an elongated strip (10) of material passing by the measuring device. The device comprises means for measuring the thickness in different positions across the width of the elongated strip (10). The means for measuring the thickness is placed in radial direction from a longitudinal axis (21) through a roller (20) that is supporting the elongated strip (10). The means for measuring the thickness comprises a sensor head (12) arranged to rest on a gas cushion generated between the sensor head (12) and the surface of the elongated strip (10), and the outer periphery (25) of the roller (20) is curved in axial direction with a larger diameter towards the ends of the roller (20).