# Press Release

**Innovation: Baumer sensor for air and gas bubble detection increases process reliability**

(11/23/2021) With the PAD20 sensor series, Baumer offers an innovative solution to a previously unsolved problem: the detection of air and gas bubbles in process media. Awarded the Dairy Technology Prize 2021 in the category Environment and Sustainability, the sensor detects even smallest air and gas inclusions and, among other things, thus prevents pumps from running dry and the entailed facility downtime. In numerous field-proven applications, this way the sensor has been increasing plant efficiency at maximum process reliability and quality.

**Innovation for multi-faceted industrial and hygiene applications**

Julian Budde, the Baumer product manager for process sensors, is convinced of the success of the sensor presented at the SPS Trade Show: "Air and gas inclusions in process media lead to plant downtime, maintenance effort and reduced product quality. Such inclusions pose a major challenge to varied industries. The intelligent detection of such inclusions is a smart Baumer solution."

Thanks to its innovative operating principle, PAD20 is the product to choose for monitoring heating and cooling systems in mechanical plant engineering. Detecting air and gas bubbles that directly impair equipment performance and function, the sensor will increase system efficiency with process stabilization in parallel.

Originally, Baumer developed PAD20 for a customer in the F&B industry. This customer wanted to prevent his installations and pumps from running dry respectively empty during container exchange. At the same time, transport containers with fruit concentrate should be fully emptied to exploit the maximum of resources. A problem lacking any solution so far. PAD20 detects even smallest air and gas bubbles in the dosing operation of fruit concentrate and this way identifies the optimum time for container exchange.

Independent of the medium, the sensor will detect liquids with a dielectric constant higher than 1.5 and this way provides maximum flexibility. Two individually defined switching ranges allow users to optimally adjust the sensor to the process requirements.

According to Julian Budde, the smart PAD20 sensor principle offers users "high process and product quality across a wide application spectrum."

Further information: [www.baumer.com/pad20](http://www.baumer.com/pad20)

**Baumer at SPS 2021: Hall 4A, Booth 335**

Photo: Sensor for air and gas bubble detection

Number of characters (with spaces): approx. 2300

Text and picture download at: [**www.baumer.com/press**](http://www.baumer.com/press)

**Baumer Group**

The Baumer Group is one of the worldwide leading manufacturers of sensors, encoders, measuring instruments and components for automated image processing. Baumer combines innovative technologies and customer-oriented service into intelligent solutions for factory and process automation and offers an unrivalled wide technology and product portfolio. With around 2700 employees and 39 subsidiaries in 19 countries, the family-owned group of companies is always close to the customer. Baumer provides clients in most diverse industries with vital benefits and measurable added value by worldwide consistent high quality standards and outstanding innovative potential. Learn more at [www.baumer.com](http://www.baumer.com) on the internet.

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| **Press contact:**  N.N.  Marketing  Baumer Group  press@baumer.com  [www.baumer.com](http://www.baumer.com/) | **Company contact global:**  Baumer Group  Phone +41 (0)52 728 11 22  Fax +41 (0)52 728 11 44  sales@baumer.com  [www.baumer.com](http://www.baumer.com) |