

## ■ Press release 07 | 2008

iNOEX expands applications of ultrasonic technology

### Measurement of thin pipe and tube layers now very easy!

The automotive industry and also many other industrial sectors set high demands on multi-layer products. As a consequence, the production process is complex. This applies e.g. to brake hoses but also to floor heating pipes. Frequently, extremely thin barrier and functional layers are demanded which give pipes and tubes their specific mechanical and chemical properties. Conventional ultrasonic measuring techniques have measuring limits at approx. 0,2 mm. iNOEX offers a new technology where the bottom measuring limit is 0,05 mm.

Barrier layers prevent e.g. oxygen from penetrating into the pipe or volatile components from leaving it. These layers provide products with special mechanical and chemical properties. In order to reduce cost, the target is to make these layers as thin as possible but as thick as necessary. This can only be done when wall thickness is controlled during production. A must in order to guarantee functions at reasonable cost.

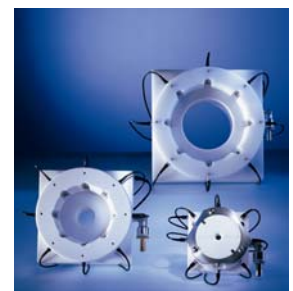
Based on many years of experience and innovative ideas, iNOEX has further developed proven ultrasonic measuring principles. As a result, function and barrier layers that could not be measured in the past, can now be precisely controlled through intelligent ultrasonic sensor technology combined with new algorithms and digital measuring techniques. Even data of extremely thin-walled pipes can be precisely recorded which means that high safety regulations can be adhered to and quality demands can be fulfilled. Up to now, ultrasonic measurement was based on the determination of ultrasonic transit times inside a product. Through digitalisation the complete signal is now recorded. This improves signal evaluation and further processing. The complete recording of the signal makes results highly precise and therefore supplies full information on the product.

#### Press contact:

Jutta Kleinmanns  
Tel.: +49(0)5731-9886-49  
Fax: +49(0) 5731-96766  
jutta.kleinmanns@inoex.de



Screen shot



Ultrasonic sensors

**About us:**

For more than 20 years, iNOEX has been the synonym for innovative measuring & control technology and process engineering in the plastic material industry. Long-term experience and revolutionary ideas have resulted in systems and solutions put into practice by a team of experts. Systems are finely tuned to requirements in the pipe, profile, cable and film extrusion. iNOEX is represented all over the world with its own subsidiaries and sales offices. The company has got 130 employees.

**Press contact:**

Jutta Kleinmanns  
Tel.: +49(0)5731-9886-49  
Fax: +49(0) 5731-96766  
jutta.kleinmanns@inoex.de

**When published, please forward reference copy to:**

iNOEX GmbH  
Jutta Kleinmanns  
Borweg 27  
32547 Bad Oeynhausen  
Germany