

NON- INTRUSIVE

PIG SIGNALER

*successful detection
through the wall*



SONOTEC 

*quick
reliable
cost-effective*

SONOPIPE 12

Ultrasonic detector

PIG DETECTION FOR LIQUID PRODUCT PIPELINES

The intelligent SONOPIPE ultrasonic sensor from SONOTEC identifies every pig passage in pipeline systems for liquids and liquid gases. The working SONOPIPE principle is "With Ultrasound through the Wall". The non-intrusive method for pig detection is quick, reliable and cost-effective.

Advantages

- The easy installation of SONOPIPE 12 is carried out from the outside, without putting a hole into the pipeline. Financial losses due to interruptions of pipeline operations and recertifications can be avoided.
- Permanent self testing routines guarantee a high degree of security.
- Both manual and automatic reset after a pig detection are available.
- SONOPIPE will also work with different kinds of pigs, such as spheres, foamed or gel pigs.

Sample Application

Pig detection for pipelines with crude oil

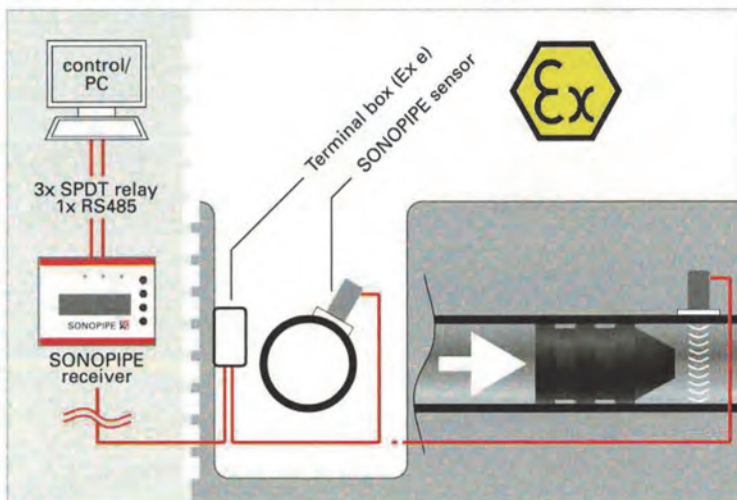
- A SONOPIPE sensor is attached to the pipeline by means of tailored hardware material. The transducer coupler ensures the permanent acoustic connection between sensor and pipe wall. The sensor is electrically insulated.
- The SONOPIPE receiver is installed in a control room on a 35 mm DIN rail outside the hazardous area.
- Besides having relay outputs, a RS485 interface may connect the SONOPIPE receiver with the control station.
- SONOVIEW software is provided with the SONOPIPE without any extra charge. The software can be used on any PC or laptop for remote parameter programming and signal checking.
- SONOPIPE 12 will be available in two different versions, namely SONOPIPE 12 S with a receiver only suitable for non-hazardous areas and SONOPIPE 12 E, which is embedded in a pressure-proof housing for applications within hazardous areas.



TECHNICAL DATA

SONOPIPE 12	ultrasonic pig signaler for liquid filled pipeline applications in hazardous areas:
Pipeline diameter	200 mm ... 1520 mm (8" ... 60")
Temperature range (Sensor)	-40 °C ... 80 °C (-40 °F ... 176 °F)
Temperature range (Receiver)	-20 °C ... 70 °C (-4 °F ... 158 °F)
Ex marking (Sensor)	II2G Ex e mb IIB T4 Gb
Signal output (Receiver)	3 switched signal, type: SPDT
Communication (Receiver)	RS485
Ingress protection (Sensor)	IP 67

SONOPIPE access via RS485 to USB converter available, using a Windows PC compatible computer with USB and SONOVIEW software. Optional accessories such as sirens, signal lamps and power supply are available.



SONOTEC reserves the right to change technical specifications without further notice.