Product Sheet

INDUSTRIAL TOMOGRAPHY SYSTEMS plc

ECT Sensors



ECT Sensors

ECT sensors comprise of multiple electrodes arranged around the circumference of a pipeline. The most common arrangement is for external electrodes mounted on a section of non-conducting pipe with an external earthed screen. The electrodes can be etched from flexible copper coated laminate. This arrangement has the advantage that the electrodes are non-invasive and non-intrusive.

Sensors

Materials:

- Acrylic
- PVDF
- PTFE

Electrodes:

- Copper

Expertise:

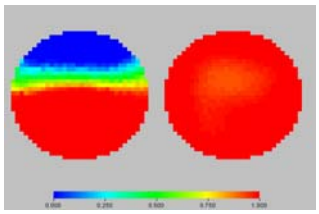
Diameter:	10 mm to 300 mm
Temperature:	150ºC Max
Pressure:	15 barg Max

- Sensors can be designed to be resistant to abrasive, chemicals and radiation

Industrial Pipeline

ITS have developed polymer lined stainless steel pipeline ECT sensors for more demanding conditions which can be provided with materials certificates if required. The electrodes are contained within a resin filled cavity between the polymer pipe linear and the external stainless steel pipe. The external stainless steel pipe ensures the pressure integrity.





Dual Modality ERT and ECT sensors

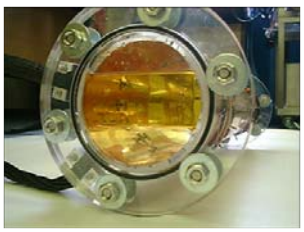
ITS have developed dual-modality ERT and ECT pipeline sensors with co-located electrodes for use with the M3000 system. These have internal ERT electrodes and external ECT electrodes.

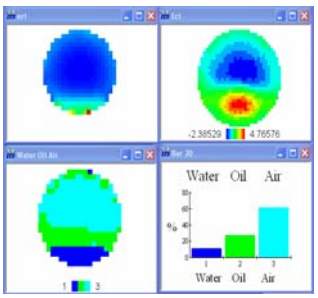
Materials:

- Acrylic
- PVDF
- PTFE

Electrodes:

- Stainless steel (ERT)
- Copper (ECT)





Expertise:

Diameter:	10 mm to 300 mm
Temperature:	150ºC Max
Pressure:	15 barg Max

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