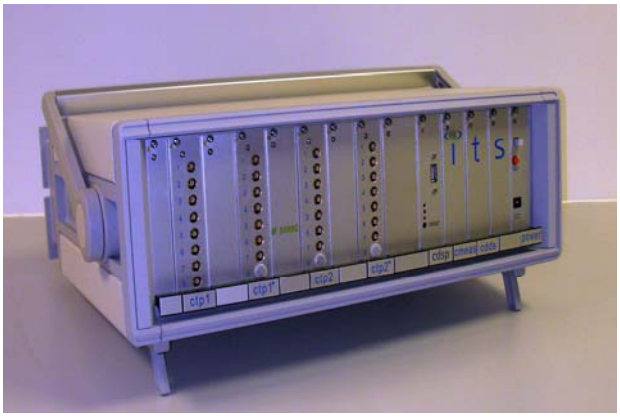
Product Sheet

INDUSTRIAL TOMOGRAPHY SYSTEMS plc

m3000 Electrical Capacitance Tomography



Electrical Capacitance Tomography:

Parameter	Permittivity
Process Environment	Dry (air/oil)
Typical Processes	Powder flow; fluidised beds
Sensor	External
Reference	Dual (max; min)
Also sensitive to	Moisture

m3000

The m3000 launched in 2002 is ITS's second instrument and is suitable for a wide range of research applications. The instrument operates by taking data from an array of 12 electrodes which can be non intrusive.

In contrast to many systems-based measurement techniques, tomography sensors are able to rapidly sense throughout a volume. Thus providing a dynamic picture of what is going on inside a pipe or vessel, e.g. whether a system is homogeneous.

Product Characteristics

m3000c (ECT)

- Max 24 electrodes arranged in 1,2,3 planes

Sensor Geometry:

- Circular

Applications

- CFD Validation
- Extrusion...
- Filtration
- Fluidised Beds
- Packed Beds
- Pneumatic Conveying

Industries:

- Biotech
- Chemicals
- Environmental
- FMCG
- Mining
- Nuclear
- Petrochemicals
- Pharmaceuticals
- Pulp & Paper
- Others...

Benefits to users are:

- Increased process understanding
- More effective process development
- Improved and more consistent product quality

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