

## v5r Electrical Resistance Tomography



### Electrical Resistance Tomography:

Parameter	Conductivity
Process Environment	Conducting (solutions)
Typical Processes	Multi-phase, slurry transportation
Sensor	Internal
Reference	Single (mean)
Also sensitive to	Temperature

### v5r

The v5r is ITS's newest ERT instrument and is suitable for a wide range of research applications. The instrument operates by taking data from an array of 32 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

Single modality (ERT)	
Max No of electrodes:	2 x16 arranged in 1 and 2 planes

### Sensor Geometry:

- Circular

### Applications

- Multiphase flow characterisation
- CFD Validation
- Filtration
- Fluidised Beds
- Packed Beds
- Pneumatic Conveying
- Extrusion

### Industries:

- Oil & Gas
- Nuclear
- FMCG
- Mining
- Others...

### Benefits to users are:

- Measurement of rapid multiphase flows
- Increased process understanding
- More effective process development
- Improved and more consistent product quality



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