



**GENESIS™**  
**MODELS ED1 & ED2**  
**Multiphase Detector**

# Genesis Multiphase Detector on Desalters

## Models

*Genesis Multiphase Detector: ED1-210B-310*  
*Genesis Pentarod Probe: XPEF-6400-A20-01-106 (X = 106.5 inch-long probe)*



**Desalter Vessel**

## Application Challenge #1

A refinery on the East Coast of the United States was experiencing numerous process upsets that were causing their existing torque tube displacer to stick, thus necessitating the need for costly, unplanned shutdowns. This motivated them to take interest in the Genesis Multiphase Detector for a side-by-side comparison.

The Desalter is 12 feet in diameter and 15 feet in length. It is the first stage of three Desalters in this refinery, collecting product coming in directly from a railcar.

## Solution

AMETEK LMS commissioned the Genesis for the customer to compare the bottom of emulsion analogue output to that of the torque tube transmitter. During the subsequent upset, the customer placed the Genesis in full control of the vessel, as it continued to measure properly, even after the displacer became inoperable.

## Benefit

The Genesis now allows them to continue to operate in those non-optimal conditions. This not only saves time, production, and money with respect to not having to go into unplanned shutdowns, the improved performance of Genesis over the torque tube is also providing additional savings due to a reduction in the amount of demulsifiers required.

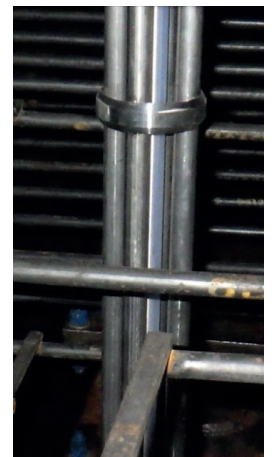
## Models

*Genesis Multiphase Detector: ED1-210C-310*  
*Genesis Pentarod Probe: PEF-64L0-A00-11-093*

## Application Challenge #2

A major refinery in Western Canada was interested in installing the Genesis Multiphase Detector on their new Desalter.

The vessel is 8 feet in diameter and 10 feet in length. The photo (right) shows the Genesis Pentarod probe installed through the electrical grid inside the vessel.



**Probe installed through electrical grid inside vessel**

## Solution

The company successfully installed the Genesis, and, by monitoring the analogue outputs corresponding to the upper level, top of emulsion, and bottom of emulsion, they are now able to accurately maintain the desired emulsion thickness, thus optimizing their process.

## Benefit

Having a device needing only one top mounted process connection, along with the smooth start-up and commissioning, allowed the customer to optimize his process quickly and effectively.



### Registered Address

ABLE Instruments & Controls Ltd  
 Cutbush Park, Danehill, Lower Earley,  
 Reading, Berkshire, RG6 4UT. UK.

### Phone

+44 (0)118 9311188

### Email

info@able.co.uk

### Web

able.co.uk

### E-commerce

247able.com

