

MUD PIT LEVELS



Ultrasonic
Probe
(Milltronics)



Delaval Stainless
Steel Float Probe

There are two types of pit level sensors currently in use. Firstly, ultrasonic probes which measure the distance from the sensor head to the fluid level by way of a rebounding ultrasonic pulse, or echo. A micro-controller removes false echoes, for example, those produced by a turbulent surface, noise or excessive steam. The probes have 1mm resolution and can be calibrated to exclude an air gap (ignoring pit gratings). The maximum range is 20m and the operating temperature range is -20 to $+40$ degrees centigrade. The second is the familiar Delaval stainless steel float probe. These have 1cm resolution and can operate in extreme temperatures or where vapors might cause ultrasonic sensors to fail.