

## SENTINEL-AM<sup>™</sup>

WIRELESS ANNULUS MONITORING FROM METROL

The ability to access annulus pressure and temperature in a subsea environment is made possible using Metrol's wireless telemetry and the SENTINEL-AM<sup>™</sup> system

### DESCRIPTION

Multiple pressure sensors can be positioned in the 'B' annulus and the data accessed wirelessly. This allows a pressure and temperature gradient to be collected if oculus gauges are set at different depths in the same annulus. OCULUS<sup>™</sup> gauges can also be set in the 'C' annulus and data collected from both annuli.

Apart from understanding thermally induced pressure increase, the data will also provide evidence of cement barrier integrity. Metrol can also deploy PROLOG<sup>™</sup> in the annulus for additional temperature validation of barrier integrity.

TRITON<sup>™</sup> ACOUSTIC BOOSTER  
POSITION TBC

TRITON<sup>™</sup> SONAR  
MODEM

OCULUS<sup>™</sup> 'B' ANNULUS  
GAUGE STATION C/W  
WIRELESS TELEMERY

OCULUS<sup>™</sup> 'C' ANNULUS  
GAUGE STATION C/W  
WIRELESS TELEMERY

### SPECIFICATIONS

MWP 10,000 psi, 16,000 psi or 20,000 psi  
MTQ Temperature range: -20 to 150°C  
MTX Temperature range: -20 to 160°C  
Memory capacity:  
210k, 1,640k, 1.8 or 3.2 million data sets

Accuracy:  $\pm 0.025\%$  of full scale  
( $\pm 2.5$ psi on 10,000 psi gauge),  $\pm 1^\circ\text{C}$   
Resolution: pressure 0.00025% of reading +0.01psi  
(eg 0.02 psi @ 4,000 psi) – temperature : 0.05°C

**\*NO RESTRICTION TO WATER DEPTH**



Specifications subject to change without notice.  
Multi year options, design life available on request.

Discover more at [www.metrol.co.uk](http://www.metrol.co.uk)