How deep can I take TAPS?

The TAPS was originally designed for relatively shallow use: in the photic zone, down to perha
had a substantial safety margin built-in, however. Since that time, various people have asked u
might put their TAPS. Our answer has always been, "it depends."

The table below was created to show just how the maximum safe depth for TAPS 'depends' up
components. In general, the maximum operating depth is usually determined by the depth ser
These sensors will withstand twice the rated pressure without damage and five times the rate
failure. Exceeding the MAX SAFE DEPTH on a pressure sensor will damage the strain gauge,
offsets and linearity errors. Exceeding the MAX DEPTH may cause catastrophic failure of TAPS

Please note that the MAX DEPTH's shown here are the **FAILURE** depths, whereas the MAX SA
feasible maximum operating depths. **You should never send TAPS below the minimum MAX
applies to your TAPS** (except for the transducer rating)**.**

COMPONENT	MAX PRESSURE (psi)	MAX DEPTH (m)	MAX SAFE DEPTH (m)	COMMEN
Case	4500	3000	**1500**	Compressive stress
Endcaps	>2500	>1700	**>1500**	> 10% safety
O-ring	2000	1360	**1090**	Using shore-90 hardne
Connectors	20,000	13,500	**10,800**	Presumes no nicks or
Thermistor	3000	2000	**1500**	25% safety r
100 psia depth sensor	500	330	**125**	Max safe depth is for no da burst dep
300 psia depth sensor	600	995	**398**	Max safe depth is for no da burst dep
500 psia depth sensor	2500	1650	**660**	Max safe depth is for no da burst dep
1000 psia depth sensor	5000	3350	**1340**	Max safe depth is for no da burst dep
Transducers	5000	3350	**200**	Calibrations not guarante unless optional calibrations Excursions to MAX DEPTH damag