

SUBSEA MULTIPLE ANNULUS SENSOR

Abstract of the Disclosure

A wellbore assembly includes a housing member (100), an inner wellhead housing (124), and a first wellbore member (130), with an outer sensor (108) located in the annulus (134) between the inner wellhead housing (124) and the first wellbore member (130). The outer sensor (108) can sense a condition of the annulus (134), such as pressure or temperature, and transmit data through a solid portion of the sidewall (126) of the inner wellhead housing (124) to a signal receiver (112) located on the housing member (100). In one embodiment, the signal receiver (112) can transmit an electromagnetic field (180) to inductively charge a power supply (158) on the outer sensor (158).

Figure 1