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# Chapter 3 Catalytic Combustible Gas Sensors

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helps make it resistant to shock and vibra-  
tions. Most importantly, the catalyst  
coating reduces the temperature needed  
to achieve a stable signal for hydrocarbons  
between 400°C and 600oC. The use of fine  
diameter wire not only reduces the size of  
the sensor, but it also increases the  
signal,Chapter 3 Catalytic Combustible  
Gas SensorsChapter 3 Catalytic  
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source of the electrical current is con-  
nected, and between the other pair of  
opposite corners, the output  
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Sensors Industry will develop is also  
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report. A holistic study of the market is  
made by considering a variety of factors,  
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Under COVID-19 Outbreak, how the Catalytic Combustion Combustible Gas Sensors Industry will develop is also analyzed in detail in Chapter 1.7 of this report. A holistic study of the market is made by considering a variety of factors, from demographics conditions and business cycles in a particular country to market-specific microeconomic impacts.

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A thorough discussion of this approach is outside the scope of this chapter; however, as lean premixed combustors are currently achieving NO<sub>x</sub> in the region of 3–4 ppm (Benoit et al., 2010; Zito et al., 2010) and all demonstrations of <3 ppm NO<sub>x</sub> using catalytic combustion are for turbine entry temperatures <1750 K, it is not likely that catalytic combustion will have a major impact on future gas turbines.

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