



DMT Instruments, LLC
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NEW!
**Environmental
Monitoring Guide**



FOX thermal mass flow meters' accuracy specification exceeds the requirements defined by the EPA rule, and helps provide a reliable, cost-effective solution to environmental emissions monitoring challenges.

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Direct Mass Flow Measurement

Fox thermal air and gas flowmeters are designed to be used in a wide variety of applications. Examples include inert and explosive gases, as well as mixed and corrosive gases. Constructed of rugged stainless steel or Hastelloy, Fox flow sensors provide a rugged, reliable, direct mass flow reading year in, year out. In addition, Fox offers both inline and insertion flowmeter configurations.

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FT2 Flow & Temperature Transmitter

Accurate Mass Measurement of Natural Gas Flow, Air flow and Other Gases

The Fox Model FT2 Thermal Gas Mass Flowmeter and Temperature Transmitter measures two important process variables with one rugged instrument. The Model FT2 measures gas flow rate in standard units without the need for temperature or pressure compensation. It provides isolated 4-20 mA and pulse outputs for flow rate, and a 4-20 mA output for process gas temperature. The pulse output is normally used for totalization.



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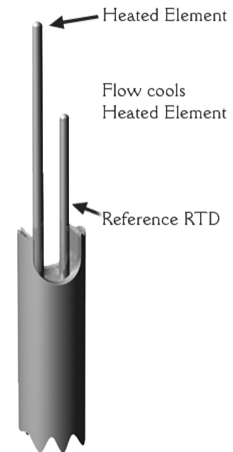
Theory of Operation

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Fox flowmeters use a Constant Temperature Differential (ΔT) technology. The sensor consists of two RTD elements. The Reference RTD measures the gas temperature. The instrument electronics heats the Heated Element to maintain a constant ΔT between the gas temperature and the Heated Element. The electrical power required to maintain a constant temperature differential is directly proportional to the gas mass flow rate.

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Thank you for your patronage. If we can answer any questions please do not hesitate to contact a [DMT Instruments Representative](#).

Sincerely,

David Thomson & David Morrissey
DMT Instruments, LLC