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producing from each sensing flow parameter a periodic digital signal indicative of the parameter;  
 producing digital indicia of the amount of gas flowing through the conduit over a first time interval greater than the periods of the produced signals;  
 storing the produced digital indicia of the amount of gas flow in a computer memory, including storing the values of numerical constants and measured gas flow characteristics used in producing said indicia of gas flow to thereby provide verification of the accuracy of said produced indicia of gas flow;  
 extracting the stored digital indicia of the amount of gas flow; and  
 making a permanent digital record of the extracted indicia of the amount of gas flow.

11. A method according to claim 10 further including prior to said producing indicia, determining the length of the first time interval.

12. A method according to claim 10 further including calibrating the producing of the indicia of the amount of gas flow by:  
 establishing the value of at least one constant for use in producing the indicia of the amount of flow

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appropriate for the gas and the conditions associated with the gas;  
 storing the value of the constant digitally in the computer memory; and  
 said producing further including using the value of the constant for producing the indicia of the amount of gas flow.

13. A method according to claim 12 further including recalibrating the producing of the indicia of gas flow by establishing a different value of the constant when conditions associated with the gas change; and storing the different value of the constant in the computer memory.

14. A method according to claim 13 further including, during said recalibrating, producing an extrapolation of the previously stored indicia of the amount of gas flow; and storing the produced extrapolation as the indicia of the amount of gas flow.

15. A method according to claim 10 further including resetting the stored indicia of the amount of gas flow to an initial value after making a permanent digital record of the amount of flow for the first time period.

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