

Title (en)

DEVICE FOR ACTIVELY REGULATING AIR/GAS RATIO IN A BURNER COMPRISING A DIFFERENTIAL PRESSURE MEASURING DEVICE

Title (de)

VORRICHTUNG ZUR REGELUNG DES LUFT/GASVERHÄLTNISSES EINES BRENNERS MIT EINER DRUCKUNTERSCHIEDMESSVORRICHTUNG

Title (fr)

DISPOSITIF POUR LA REGULATION ACTIVE DU RAPPORT AIR/GAZ D'UN BRULEUR COMPRENANT UN DISPOSITIF DE MESURE DE PRESSION DIFFERENTIELLE

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Application

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Abstract (en)

[origin: FR2775782A1] The invention concerns a device for actively regulating a burner air/gas ratio comprising one of two differential pressure measuring devices (42) each of which is equipped with a differential sensor (1) with two inlets (2 and 3). Said inlets are respectively connected to pressure intakes (4 and 5), in one of which is placed in a calibrated throttling orifice (27). The regulating device comprises a two-way valve (28) which, when closed, isolates the inlets (2 and 3) from each other and, when open, communicates them with each other. A measuring circuit (26) is provided equipped with storage means for memorising at least two output signal values of the sensors, a control unit (23) for switching the valve (28) and causing a first output signal value of the sensor (1) to be memorised in the storage means when the valve (28) is closed, and a second output signal value of the sensor (1) to be memorised when the valve (28) is open, and subtracting means to compute the difference between the two memorised output signal values of the sensor (1), thereby eliminating possible variations. In a preferred embodiment, the regulating device comprises one single differential pressure measuring device.

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