

EXHAUST MONITORING SYSTEM (EMS)

AS PER DVGW COP G 631*



KEY POINTS FROM CODE OF PRACTICE G 631

- ➔ Monitoring is required irrespective of the appliance from a total rated load > 14 kW
- ➔ Flue gas routing must be safeguarded via exhaust monitoring system (ÜA)
- ➔ Failsafe design of the exhaust monitoring system to comply with DIN EN 13611
- ➔ Shut-off device comprises 2 automatic shut-off valves which are compliant with DIN EN 161 (min. Class B)
- ➔ Evidence of commissioning by a contract installation company must be provided
- ➔ The exhaust monitoring system must be tested at regular intervals by the regional responsible district chimney sweep authorities

DVGW CODE OF PRACTICE G 631 – SCOPE AND ADDITIONS

DVGW Code of Practice G 631 (March 2012 edition – replaces DVGW Code of Practice G 634) applies to the installation, design, construction, modification, operation and servicing of commercial gas appliances with gases as per DVGW Code of Practice G 260 with an operating pressure of up to 100mbar in catering and kitchen facilities. This also includes e.g. grill appliances, snack outlets and clubs used for commercial purposes and similar applications. The new requirements for safeguarding flue gas routing are particularly important in this respect. It replaces DVGW Code of Practice G 634 "Installation of gas appliances in commercial kitchens in buildings".

The main safety aim of DVGW Code of Practice G 631 is still to ensure the following during flue gas routing: "... that flue gases can be safely routed away during all operating situations."

Type of gas appliance	Total rated load	Exhaust monitoring system
A	≤ 14 kW	No
	> 14 kW	Yes
B Indirect flue gas routing	Irrespective of load	Yes

EXHAUST MONITORING SYSTEM (EMS):



➔ **KITCHEN CONTROL UNIT
KCU 100ADW**



➔ **GAS SHUT-OFF DEVICE
FSA XXR05**



➔ **AIR PRESSURE SWITCH
DW**



KITCHEN CONTROL UNIT KCU 100ADW

The microprocessor-controlled, fully automatic KCU kitchen control unit is used to safeguard flue gas routing. Series 100 of the KCU is equipped as standard with five LED status lights (including operation and fault) and a potential-free operation signalling contact, 230 V~ /50/60 Hz power supply, IP rating 54. Design: light grey plastic housing (RAL 7035). KCU with optimum failsafe reliability as per DIN EN 13611. Gas shut-off device can be reset after a 60-second safety lockout period.



GAS SHUT-OFF DEVICE FSA XXR05

FSA gas shut-off device approved as a central shut-off device for all fuel gases as per DVGW Code of Practice G 260 up to a guaranteed inlet pressure $p_e < 500$ mbar, comprising a double gas solenoid valve as per DIN EN 161. Brass screw fittings in the inlet and outlet sections and a gas ball valve with integral thermally activated shut-off equipment for manual shut-off is pre-installed in the gas inlet of the device.

kW (rated load)	FSA nominal diameter	
	DN	Rp
40*	DN 15	Rp 1/2"
60*	DN 20	Rp 3/4"
80*	DN 25	Rp 1"
150*	DN 40	Rp 1 1/2"
250*	DN 50	Rp 2"

* at Δp 1 mbar (natural gas)



Declaration of Conformity
Kitchen control unit KCU



AIR PRESSURE SWITCH DW

Air pressure switch with fitted mounting bracket for fixing purposes. With hose connection for setting switching points. All fittings are EC type-tested and certified or DIN-DVGW tested and registered.

