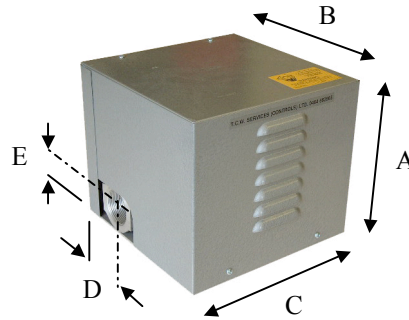


ANCILLARY EQUIPMENT

VALVE ENCLOSURE

If the valve unit is to be fitted in an exposed position where the public may be able to touch the solenoid valve or get to the adjustable pressure switch, it may be desirable to fit a valve enclosure. We can



	1/2"	3/4"+1"	1 1/2"	2"
A	250	250	250	325
B	250	250	250	280
C	245	245	245	195
D	20	70	60	80
E	50	40	50	75

supply these enclosures to fix to the valve and give protection to IP 21.

The enclosure is a ventilated metal case constructed from 20 SWG steel with a silver hammered paint finish. The cover is fixed with pan head screws, which may be replaced with tamper proof screws if required. The removable enclosure cover gives access to the pressure switch and orifice for commissioning and also during servicing. The above 3 sizes of enclosure cover the main valve size range. For larger valves and special units contact ourselves. These dimensions are correct for either gas flow directions.

TIME SWITCH

A battery backup time switch is available for use with the Firewatch to shut off the gas system at a predetermined time. The time switch gives automatic shut down by sending a one-minute off pulse to the Firewatch, closing the gas valve. N.B. The system always remains a manual reset system. The time switch fits inside the Firewatch on to the existing printed circuit board. It can therefore be retrofitted with only a minor rearrangement of the existing electrical wiring. The time switch is programmable to give up to 4 off signals, but comes programmed to shut off the gas at 4.00 pm. If the time switch is left set to BST as supplied, this shuts down correctly during the summer, and during the winter this become 5.00 pm. Should the gas supply be in use when the time switch shuts down the gas valve, the Firewatch requires resetting by means of the key switch and this can be done after one minute. The time switch has an internal Metal Hydride battery (1000 hrs) to keep the clock at the correct time.



The user does not require access to the clock and there is no external indication of the clock function other than the green lamp being extinguished when the gas shuts down. The red lamp will also extinguish whilst the clock is switched off.

EXTRA INTERNAL RELAY. (BMS connection).

An additional relay can be fitted to enable the unit to shut down in response to a signal from the fire alarm BMS or similar low voltage circuit. The relay can be arranged to shut off the valve system either:-

- From terminal A: (shutdown when the supply is energised) or
- From terminal 1: (shutdown when the supply is de-energised fail

safe).



It fits onto existing mounting points and is electrically connected with links to the existing connector block. It can be supplied as a separate item if needing to retrofit after the supply of the control unit and is suitable for use with either Firewatch or Fireguard systems.

The relay can be either 12v or 24v AC or DC. This information must be specified when ordering.

LOW VOLTAGE STOP CIRCUIT and RELAY. (Fire alarm connection).

In some areas it is desirable to keep the external stop circuit voltage down to low voltage. This can be achieved by use of an additional PCB. This board steps down the voltage on the external stop circuit to 24 volts and provides the interface relay contacts to control the main control panel. It fits onto existing mounting points and is electrically connected with links to the existing connector block. It can be supplied as a separate item if needing to retrofit after the supply of the control unit and is suitable for use with either Firewatch or Fireguard systems.



KITCHEN VENTILATION OVERRIDE TIMER

No longer permitted by HSE catering sheet 23 (2007)

MUSHROOM KNOCKOFF BUTTONS



A red 30mm mushroom button fitted to a surface mounting yellow plastic enclosure. Complete with black on yellow “GAS EMERGENCY OFF” label. Any number may be used in conjunction with either Firewatch or Fireguard. Also available are latching, key-reset and flush button versions. IP 50



BREAK GLASS KNOCKOFF BUTTONS

A yellow break glass “fire alarm style” knockoff, suitable for surface or semi-flush mounting. Complete with black on yellow “GAS EMERGENCY OFF” label. The glass may be replaced with a plastic window, which deforms instead of breaking. Following operation of this plastic window the unit can be dis-assembled and the window repositioned to reset the unit. IP 44



FIRE ALARM OVERRIDE OPTIONS

If the equipment is linked to the fire alarms and the alarms are tested frequently it may be necessary to provide a means of disabling the shutoff signal during the test. With modern addressable systems, the system may be able to be configured to allow this.

Alternatively we can provide a timer circuit to fit inside the Firewatch / Fireguard panel to prevent shutdown unless the fire alarm signal exceeds 30 secs (adjustable).

A further option is for us to fit a key switch to the side of our panel to allow bypassing during the test.

STATUS SIGNAL OUTPUT TO EXTERNAL POSITION

The Firewatch Mk II and Fireguard Mk III units have a single pole voltage free changeover contact (SPCO) as standard, which can be used to signal the status of the panel (This must be specified when ordering for other versions). This relay contact operates immediately the key switch is operated. If on the Firewatch it is desirable to provide a signal following a successful valve test, an extra relay can be incorporated on the base board to give this function.

Alternatively the gas valve can be provided with an end switch to prove open or closed position.

HEAT DETECTORS

Resettable



Non-resettable



2 Types of heat detector are available for use with the shutoff equipment. They are the resettable or non-resettable types. Either type is installed above the heat source and wired back to the panel to shut down the gas valve. Following operation of the unit due to over temperature, turning the control knob resets the resettable type. The non-resettable unit requires replacement of the thermal fuse. BS 5....states these should be a maximum of 1 mtr above the appliance. IP 20

WATER SOLENOID VALVES.

Water solenoid valves can be provided to control the mains or tank head supplies on either the hot or the cold water supplies. The same valve is suitable for hot or cold supplies (Max valve temp 80° C, Max water temp 100° C). Two pressure ranges are available. 0.3 – 10 bar in all valve sizes, or 0 – 6 bar in 15,20 and 25mm. All valves are BSP. The standard gas valve is supplied with an AC coil which can in some installations cause noise problems. An internally rectified coil is available to fit all valves and give silent running. In hard water areas where the valve is permanently energised calcite can form jamming the valve in the open position. An insulated diaphragm is available to prevent this forming. Only available for the 0.3 – 10 bar range of valves. IP 67.



ELECTRICAL CONTACTOR.



Electrical contactors can be provided to shut down the electrical systems in the Laboratories/Kitchens. These contactors are in an enclosure and would normally be installed adjacent to the electrical distribution panel with only the control wiring to the Firewatch panel. Available as 45Amp 4 pole or 63Amp and 80Amp 3 pole.