

FIRE ALARM

- w **Conventional photo-optical smoke sensor**
mod. 1043/221
- w Complying with EN 54/7 specifications

- w **Heat sensor**
mod. 1043/223
- w Complying with EN 54/5 specifications

- w **Conventional Rate-of-rise sensor**
mod. 1043/225
- w Complying with EN 54/5 specifications



- w **Microprocessor control unit**
mod. 1043/136
- w Complying with EN 54 part 2 - 4 specifications



- w **Manual break-glass button**
mod. 1043/143
- w Complying with EN 54 part 11 specifications



CONTROL UNITS

- Sch. 1043/136** 4-zone microprocessor control unit expandable to 8, 12, 16 and 20 zones
Sch. 1043/022A 2-zone microprocessor control unit
Sch. 1043/024A 2-zone microprocessor control unit

ACCESSORIES

- Sch. 1043/023** Optional relay board for 1043/022 control units
Sch. 1043/025 Optional relay board for 1043/024 control units
Sch. 1043/026 Output control interface
Sch. 1043/028 Serial interface for 1043/022 /024 control units
Sch. 1043/137 4-input/4-output expansion board for 1043/136 control unit
Sch. 1043/276 RS232 - RS485 interface
Sch. 1043/275 Printer interface

SENSORS

- Sch. 1043/221** Photo-optical smoke sensor with base
Sch. 1043/222 Photo-optical smoke sensor with base and relay output
Sch. 1043/223 Temperature sensor with base
Sch. 1043/224 Temperature sensor with base and relay output
Sch. 1043/225 Rate-of-rise sensor with base
Sch. 1043/226 Rate-of-rise sensor with base and relay output
Sch. 1043/231 Optical-thermal sensor with base
Sch. 1043/232 Optical-thermal sensor with base and relay output
Sch. 1043/143 Manual break-glass button
Sch. 1043/144 Manual reset button



1043/136



1043/221



1043/143

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Unconventional performance



Conventional Fire Alarm Systems.



Partners in safety

With their elegant design and unique performance for units in their segment, Urmet's new fire alarm control units address all the requirements of small and medium residential and industrial systems: simplicity, modularity and versatility are the main features designed to continue Urmet's control unit line.

The wide range, which comprises 2-zone, 4-zone control units and modular control units able to cover 4 to 20 zones, makes it possible to meet any type of management requirement. Each line is considered a zone and can be activated or de-activated with a command.

This option can be set from the membrane keyboard present on the front panel of the control unit that can be used to carry out all system programming and management operations.

Each line can manage up to 32 conventional sensors (Ref. UNI 9795 Standards) and each input can be bypassed individually.

The control units feature an LCD and/or 4-digit display according to model for output of events and for programming.

All events are recorded in a non-volatile memory with time, date and event number.

An alarm threshold can be set for each zone (single or double/multiple consent criteria) and, for printout of events, a parallel printer can be connected using the optional RS232/RS485 board.

The control units are equipped with three relay type outputs: one for a general alarm, one for an alert and power-off alarm output. A further 2/4 freely programmable relay outputs are also available that can be combined with the inputs of each control unit.

CONTROL UNIT

1043/136 • 4-zone microprocessor control unit expandable to 8, 12, 16 and 20 zones

☞ *Complying with EN 54 part 2 - 4 specifications*

With their elegant design and unique performance for units in their segment, the new fire alarm control units can address all the requirements of small and medium residential and industrial systems: simplicity, modularity and versatility are the main capabilities designed to continue Urmet's control unit line.

With the aid of a microprocessor, the control unit can manage up to 20 lines/zones from a basic 4. Each line is considered a zone and can be activated or de-activated with a command.

This option can be set from the membrane keyboard present on the front panel of the control units that can be used to carry out all system programming and management operations.

Each line can manage up to 32 conventional sensors (Ref. UNI 9795 Standards) and each input can be individually bypassed.

The control units feature an LCD display for output of events and for programming. All events are recorded in a non-volatile memory with time, date and event number. An alarm threshold can be set for each zone (single or double/multiple consent criteria) and the Sch. 1043/275 print module can be connected using the optional RS232/RS485 board Sch. 1043/276, permitting printout of events. The control unit is equipped with three relay type outputs: one for a general alarm, one for an alert and a power-off alarm output. A further 4 freely programmable relay type outputs are available by default.

The control unit can be upgraded as regards number of lines and outputs with the Sch. 1043/137 expansion board.

Common characteristics and capabilities

- ☞ Management of max. 20 lines - 4 basic lines, expandable with 4-line additional boards
- ☞ Management of up to 512 points (sensors/activation modules)
- ☞ Management of 32 points per line
- ☞ Up to 20 programmable outputs (4 for each expansion board)
- ☞ Balanced lines with double threshold
- ☞ 40 x 4 back-lit alphanumeric LCD display
- ☞ Possibility of setting an alarm threshold for each zone
- ☞ Possibility of enabling/disabling the individual lines/zones
- ☞ Built-in management keyboard with three access levels
- ☞ Possibility of saving up to 1000 events in the memory
- ☞ RS232 output (possibility of connecting the 1043/276 interface to convert the line into RS485 (e.g. for print module)
- ☞ Possibility of connecting a printer using the 1043/275 print module
- ☞ 27.6 Vdc - 2.5 A switching power supply (with current limitation)
- ☞ Max. 1.5 A @ 27.6 V external load
- ☞ Internal buzzer
- ☞ General alarm relay output: SPDT 24 V
- ☞ Alert alarm relay output: SPDT 24 V
- ☞ Power-off alarm output: SPDT 24 V
- ☞ Battery compartment: 2x 12 A - 12 Vdc batteries
- ☞ Dimensions: 430 (W) x 345 (H) x 115 (D) mm



CONTROL UNIT

1043/022A • 2-zone microprocessor control unit

w *Complying with EN 54 part 2 - 4 specifications*

1043/024A • 4-zone microprocessor control unit

w *Complying with EN 54 part 2 - 4 specifications*

The control units can be used to manage up to two or four independent lines/zones.

Each line is considered a zone and can be activated or de-activated with a command. This option can be set from the membrane keyboard on the front panel of the control unit which is used to perform all system programming and management operations.

Each line can manage up to 32 conventional sensors (Ref. UNI 9795 Standards), and each input can be individually bypassed.

The control unit has two relay outputs: a general alarm output which is activated with at least one zone in alarm condition and a general fault alarm output that is activated the case of a fault. The alarm and fault outputs can be activated and de-activated using the keyboard.

Other relay outputs are also available (zone alarm and general pre-alarm) on the Sch. 1043/023 and Sch. 1043/025 optional boards.

Common characteristics and capabilities

- w Double-threshold balanced lines
- w Power take-off in pre-alarm condition: 25 mA
- w Power take-off in alarm condition: 50 mA
- w General alarm relay output: 1 A
- w Fault alarm relay output: 1 A
- w Protection on the electrical outputs
- w Power supply: 27.6 Vdc
- w Maximum current: 1 A
- w Maximum external load: 500 mA
- w Non-volatile memory
- w Monitoring of battery charge according to ambient temperature
- w Limitation of battery charge
- w Internal buzzer
- w Programming keyboard
- w Bypass of the individual lines
- w Zone signalling: led
- w Battery compartment: 2 x 7 A - 12 Vdc batteries
- w Operating temperature: -5°C ÷ 45°C
- w Protection rating: IP30
- w Dimensions: 380 (W) x 295 (H) x 75 (D) mm

