

## features

- Complies with EN54 part 2 and part 4
- Optional 20 or 40 fire zones
- 2 independent sounder circuits
- 500mA Universal Loop Driver
- Supports Apollo (Xplorer, XP95 and Discovery), Hochiki (ESP), Morley-IAS & System Sensor
- 7 day timers
- Day/Night mode switching
- Onboard monitored inputs
- Programmable user function keys
- Event logging
- Onboard diagnostics
- User access restriction
- All metal enclosure
- Plug-in connectors
- Optional internal printer
- PC configuration software (optional)

The Dimension series of intelligent multi protocol fire alarm control panels from Morley-IAS Fire Systems have been developed based on two concepts - **simplicity and reliability**.

# DX1e

single loop multi protocol  
intelligent fire alarm  
control panel

# Data Sheet

We reserve the right to amend any design or specification in line with our policy of continuing development and improvement. © Morley-IAS Fire Systems 2003.

Simply, fix the control panel to the wall, connect the field wiring and everything else is configured in the software. Even programming the control panel is simple. No computer is required and it only takes a few key presses to have a working fire alarm system. First, set the protocol for the loop devices. Second, "Autolearn" the panel and finally, "Reset" the panel. The control panel is now protecting the building.

The Dimension series provides additional features allowing:- programmable text messages to identify the exact location of each field device, a class change input for schools, coincidence and verification detection (false alarm management), sensitivity adjustment (between day and night), programmable function buttons, input/output logic and extensive event logging. A feature rich fire alarm control panel constructed from high specification components to help both the installer and the end user.

The Dimension series is especially suited to small offices, retail units, health centres, leisure facilities, cinemas, nursing homes, sheltered housing and small hotels to name but a few applications. A compact, high performance, economical fire alarm control panel for the protection of small to medium sized buildings.



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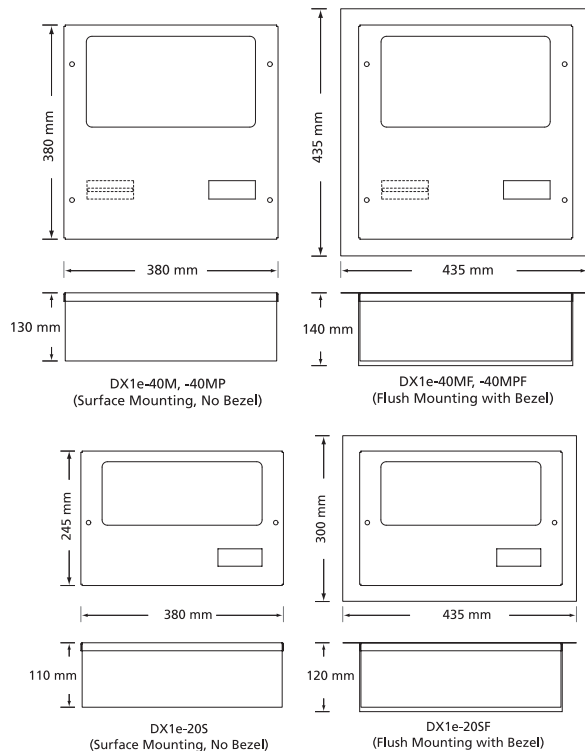
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# mechanical

|                               |                                  |
|-------------------------------|----------------------------------|
| Dimension (H x W x D):        |                                  |
| DX1e-20S                      | 245 x 380 x 110 mm               |
| DX1e-40M                      | 380 x 380 x 130 mm               |
| DX1e-40MP                     | 380 x 380 x 130 mm               |
| Weight (Excluding batteries): |                                  |
| DX1e-20S(F)                   | 5 Kg                             |
| DX1e-40M(F)                   | 7 Kg                             |
| DX1e-40MP(F)                  | 7.2 Kg                           |
| Material:                     | 1.2mm Zintec powder epoxy coated |
| Colour:                       | RAL 9001 - Cool Grey             |
| Knockouts:                    |                                  |
| Top:                          | 19 x M20                         |
| Bottom:                       | 3 x M20                          |
| Temperature:                  |                                  |
| Operating:                    | 0°C to +45°C                     |
| Storage:                      | 10°C to +55°C                    |
| Relative humidity:            | 5% to 95% non-condensing         |



# electrical

|                      |  |
|----------------------|--|
| Operating Voltage :  | 230Vac (+10%, -15%) 50-60 Hz                           |
| PSU Rating :         |  |
| DX1e-20S(F)          | 24 Vdc 3A  |
| DX1e-40M(F)          | 24 Vdc 3A  |
| DX1e-40MP(F)         | 24 Vdc 3A  |
| Stand-by Batteries : |  |
| DX1e-20S(F)          | 2 x 7Ahr   |
| DX1e-40M(F)          | 2 x 7Ahr or 2 x 12Ahr                                  |
| DX1e-40MP(F)         | 2 x 7Ahr or 2 x 12Ahr                                  |
| Auxiliary output *:  | +24 Vdc 250mA fused                                    |
| Loop Capacity** :    | 1 Loop, 500mA  |
|                      | 126 devices Apollo Protocols                           |
|                      | 126 devices Hochiki Protocol                           |
|                      | 198 devices Morley-IAS Protocol                        |
|                      | 198 devices System Sensor Protocol                     |
| Output Relays:       |  |
| Fire relay:          | Single pole changeover 30Vdc 1A                        |
| Fault relay:         | Single pole changeover 30Vdc 1A                        |
| Aux relay:           | Programmable single pole changeover 30Vdc 1A           |
| Onboard Inputs:      |  |
| Keyswitch:           | programmable for select functions                      |
| Input #1:            | programmable (monitored) for select functions          |
| Input #2:            | programmable (monitored) for select functions          |
| Data Ports :         | 1 x RS 485 (Repeater connections)                      |
|                      | 1 x RS232 (PC Programming)                             |
| Sounder Circuits :   | 2 output circuits, 1A available across both circuits.* |

# user interface

|                    |  |
|--------------------|--|
| Display:           | 2 x 40 character backlit liquid crystal  |
| Control keys:      | Sound Alarms, Silence/Resound, Mute Buzzer, Accept, Reset.   |
| Programmable keys: | 2 independent programmable buttons and LED indicators.   |
| Programming keys:  | 12 button alpha numeric key pad and 4 cursor keys.   |
| Indicators:        | Fire, Fault, Test, Disablement, Delayed Mode, Alarms Silenced, Buzzer Muted, Sounders Disabled, Relays Disabled, Power Supply Fault, CPU Fault, Sounder Fault and Earth Fault. |
| Zonal:             | 20 or 40 Fire zones LED indicators.  |

# part numbers

|                |  |
|----------------|--|
| <b>705-001</b> | DX1e-20S Single loop Fire Alarm Control Panel (20 fire zones).   |
| <b>705-021</b> | DX1e-20S-M Single loop Fire Alarm Control Panel (20 fire zones). Morley-IAS Potocol only.              |
| <b>705-002</b> | DX1e-40MP Single loop Fire Alarm Control Panel (40 fire zones).  |
| <b>705-022</b> | DX1e-40M-M Single loop Fire Alarm Control Panel (40 fire zones). Morley-IAS Potocol only.              |
| <b>705-003</b> | DX1e-40MP Single loop Fire Alarm Control Panel (40 fire zones) with internal printer.                  |
| <b>705-011</b> | DX1e-20SF Single loop Fire Alarm Control Panel (20 fire zones). Flush mounting.                        |
| <b>705-012</b> | DX1e-40MF Single loop Fire Alarm Control Panel (40 fire zones). Flush mounting.                        |
| <b>705-013</b> | DX1e-40MPF Single loop Fire Alarm Control Panel (40 fire zones). Flush mounting with internal printer. |

# accessories

|                    |   |
|--------------------|---|
| <b>795-083</b>     | Keyswitch Kit   |
| <b>797-066</b>     | Bezel kit for DX1e-20S  |
| <b>797-067</b>     | Bezel kit for DX1e-40M, -40MP                                   |
| <b>795-085</b>     | Internal printer kit  |
| <b>070-010</b>     | Printer paper roll  |
| <b>709-601-001</b> | ZXr-A Active Repeater   |
| <b>709-701-001</b> | ZXr-P Passive Repeater  |
| <b>795-082</b>     | Engineers SPK (Software Programming Kit)                        |
| <b>795-080</b>     | PC Interface Lead for programming all Morley-IAS control panels |

## Note:

\* Maximum available current will be dependent on full control panel loading.

\*\* Only one protocol can be selected within the control panel.