HONEYWELL - MORLEY DXC SERIES

Product presentation

Honeywell

DXC CONTROL PANELS

Control Panels

- DXc1, Single-loop control panel

Features:
- Networking up to 16 loops
- 1 loop control panel (inbuilt loop card)
- 160 Fire Zones
- Loop Capacity: 500mA per loop

Sensors/detectors   99
MCP's, Modules & other   99
Total numer of devices   198

- 6x40 character (240x64) blue liquid crystal display
- Onboard Data Ports: 1 x RS485 (Repeater connection) 1 x PC Programming Port, optional: RS232 third party protocol interface
- Sounder Circuits: 2 output circuits, 1A per circuit.
- Aux relay: Programmable single pole changeover 24V DC 1A
- Fire, Fault relay: Single pole changeover 24V DC 1A
- 2 x onboard monitored inputs
- 2 x independent programmable function keys

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Control Panels

- DXc2, Two-loop control panel

Features:
- Networking up to 16 loops
- 2 loop control panel (inbuilt loop card)
- 160 Fire Zones
- Loop Capacity: 500mA per loop

Sensors/detectors: 198
MCP's, Modules & other   198
Total numer of devices   396

- 6x40 character (240x64) blue liquid crystal display
- Onboard Data Ports: 1 x RS485 (Repeater connection) 1 x PC Programming Port, optional: RS232 third party protocol interface
- Sounder Circuits: 2 output circuits, 1A per circuit.
- Aux relay: Programmable single pole changeover 24V DC 1A
- Fire, Fault relay: Single pole changeover 24V DC 1A
- 2 x onboard monitored inputs
- 2 x independent programmable function keys

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Control Panels

- DXc4, Four-loop control panel

Features:

- Expansion 2 loop card for DXc2 panels. Plug and play card to expand the DXc2 panel capacity to 4 loops

- Loop Capacity: 500mA per loop

Sensors:	396
MCP's, Modules & other	396
Total numer of devices	792

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Control Panels

- DXc1, DXc2, DXc4

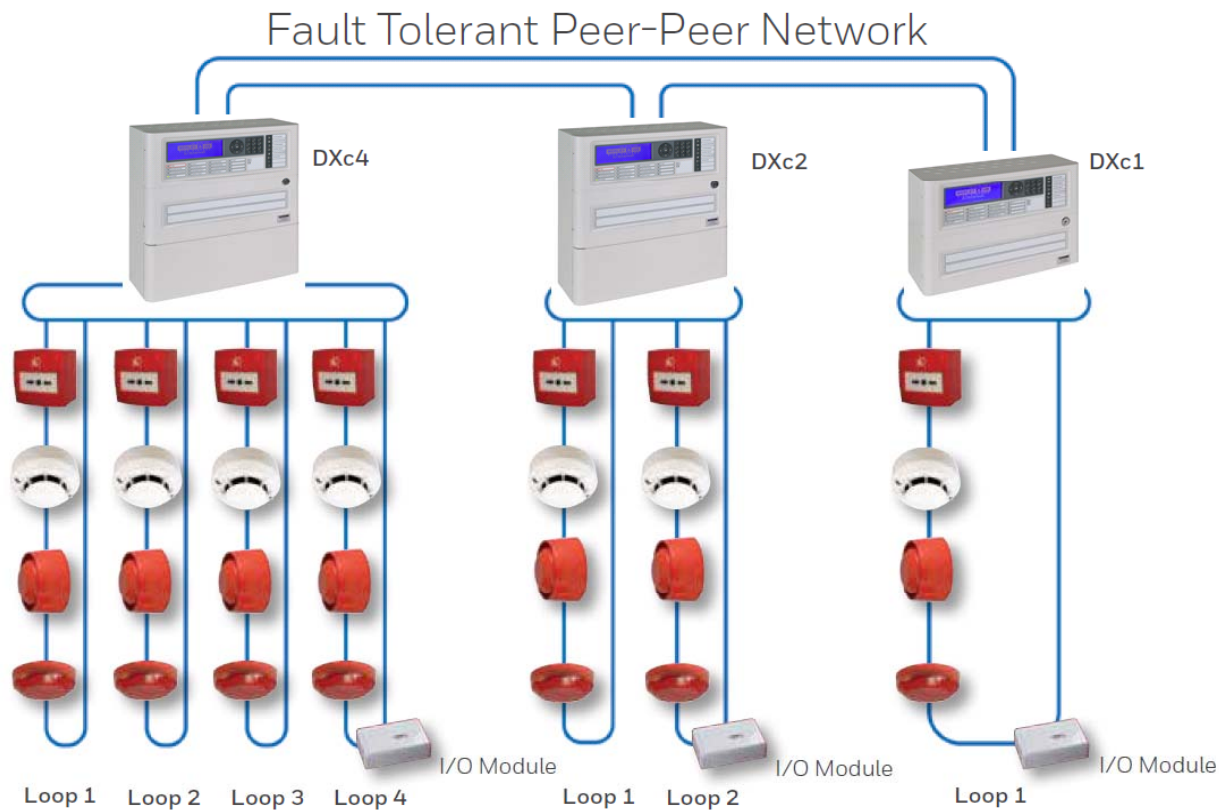| Mechanical	DXc1	DXc2	DXc4
Dimensions [mm] (H x W x D)	260 x 390 x 147	391.5 x 390 x 147	391.5 x 390 x 147
Weight (Excluding Batteries)	4kg	4.5kg	4.5kg
Colour	RAL 9002 - Grey white	RAL 9002 - Grey white	RAL 9002 - Grey white
Mounting Holes	3	3	3
Knockouts (20mm)	Top: 25x Bottom: 2x	Top: 25x Bottom: 4x	Top: 25x Bottom: 4x
Operating Temperature	0°C to +40°C	0°C to +40°C	0°C to +40°C
Relative Humidity	5% - 95% non-condensing	5% - 95% non-condensing	5% - 95% non-condensing
	IP30	IP30	IP30
Material	Mild steel sheet rear enclosure. ABS plastic front cover		

Electrical			
Operating Voltage	230V AC (+15%,-15%) 50-60 Hz	230V AC (+15%,-15%) 50-60 Hz	230V AC (+15%,-15%) 50-60 Hz
PSU Rating	24V DC 2A	24V DC 4A	24V DC 4A
Stand-by Batteries	2 x 7Ah	2 x 17Ah	2 x 17Ah
Auxilliary Output	+24V DC 250mA fused	+24V DC 250mA fused	+24V DC 250mA fused

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Control Panels

- DXc System example & Network card

Fault Tolerant Peer-Peer Network

DXc4   DXc2   DXc1

I/O Module   I/O Module   I/O Module

Loop 1   Loop 2   Loop 3   Loop 4   Loop 1   Loop 2   Loop 1

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Control Panels

● USB isolated upload/download lead

Interface between a PC and Morley fire alarm control panel and is required to upload and download panel configuration from the DXc free configuration tool, to firmware panel updating or to download history logs from panel.

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HM INTELLIGENT DETECTORS

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HM Series

HM/PSE - Optical smoke detector

Features:

● Genuine and fast response

● Advanced protocol and smoothing filter to suppress false alarm

● Rotary decade switches

● Analog addressable communication

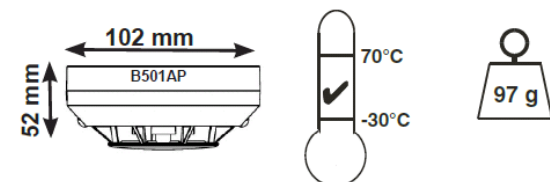● Dual integrated LED for 360° visibility

● Conforms to EN54-7

Rotary Address Switches

X 10   X 1

102 mm

52 mm

B501AP

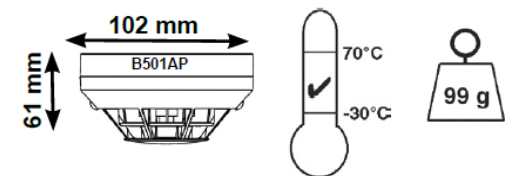70°C

-30°C

97 g

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HM Series

HM/PTSE - Optical-thermal smoke detector

Features:

- Genuine and fast response
- Advanced protocol and smoothing filter to suppress false alarm
- Rotary decade switches
- Analog addressable communication
- Dual integrated LED for 360° visibility
- Conforms to EN54-7 and EN54-5

Detector HM/PTSE can be programmed to operate in a "heat only" mode, automatically reverting to full photo-thermal operation during unoccupied periods.
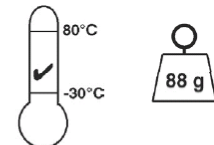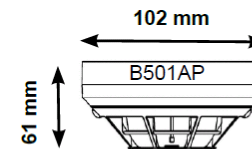

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HM Series

HM/RHSE - Rate of rise thermal detector

HM/FHSE - Fixed 58^{0}C thermal detector

Features:

- Genuine and fast response
- Advanced protocol and smoothing filter to suppress false alarm
- Rotary decade switches
- Analog addressable communication
- Dual integrated LED for 360° visibility
- Conforms to EN54-5

HM/RHSE generates alarm when the rate of rise in temperature exceeds 10°C/minute (typical) or if the temperature exceeds a threshold of 58°C response Class A1R.

HM/FHSE - signals temperatures over 58°C(Class A1S).

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HM Series

- Sensors/ detectors

- HM/PSE - Optical smoke detector

- HM/PTSE - Optical-thermal smoke detector

- HM/RHSE - Rate of rise thermal detector

- HM/FHSE - Fixed 58^0C thermal detector

- Accessories HM Series

- MI/B501AP/IV - standard low profile base

- SMK400AP-IV - deep base for MI/B501AP/IV

- 781814 - remote indicator

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MCP & MODULES

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Manual Call Point

M5A-RP06FF-K013-41 - Manual Call Point isolated

W5A-RP06SG-K013-41 - Manual Call Point isolated IP67

Features:

• Integral loop isolation

• Resettable, unbreakable flexible element

• Semi-flush and surface mount option

• Unique plug and play installation concept

• Integrated LED

• Conforms to EN54-11

The flexible release plastic element provides a resettable option by using the provided key.

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Manual Call Point

- Manual Call Points
- M5A-RP06FF-K013-41 - Manual Call Point isolated
- W5A-RP06SG-K013-41 - Manual Call Point isolated IP67

- Accessories for Manual Call Points
- PS031W - Surface mounting base red for MCP
- MUS156 - Spare EN54-11 glass pack for MCP
- PS200 - Transparent cover for MCPSC070
- SC070 - Spare keys pack for MCP

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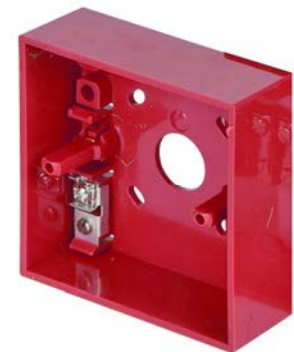
MI/DMMI - Single channel input module

Features:
- Rotary decade address switch
- Single input
- Tri-color LED status
- Built-in short circuit isolators
- Plug-in connectors

MI/DMMI requires a single address of the ninety-nine possible module addresses available on a loop.

TECHNICAL DATA	
OPERATING VOLTAGE	15 ... 30 V DC
QUIESCENT CURRENT	310 uA @ 24 V DC (no communications) 510 uA @ 24 V DC (LED blink enabled)
TEMPERATURE RANGE	-20°C ... 60°C
RELATIVE HUMIDITY	0 ... 95% (non-condensing)
DIMENSION	H: 93 mm W: 94 mm D: 23 mm
WEIGHT	100 g
INGRESS PROTECTION	IP30 (IP50 in M200E-SMB)
MAXIMUM WIRE GUAGE	2.5 sqmm

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MI/DMM2I - Dual channel input module

Features:
- Rotary decade address switch
- Dual input
- Tri-color LED status
- Built-in short circuit isolators
- Plug-in connectors

MI/DMMI requires a two address of the ninety-nine possible module addresses available on a loop.

TECHNICAL DATA	
OPERATING VOLTAGE	15 ... 30 V DC
QUIESCENT CURRENT	340 uA @ 24 V DC (no communications) 600 uA @ 24 V DC (LED blink enabled)
TEMPERATURE RANGE	-20°C ... 60°C
RELATIVE HUMIDITY	0 ... 95% (non-condensing)
DIMENSION	H: 93 mm W: 94 mm D: 23 mm
WEIGHT	110 g
INGRESS PROTECTION	IP30 (IP50 in M200E-SMB)
MAXIMUM WIRE GUAGE	2.5 sqmm

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MI/D2ICMO - Dual input single output module

Features:
- Rotary decade address switch
- Dual input single output
- Tri-color LED status
- Built-in short circuit isolators
- Plug-in connectors

MI/D2ICMO provides 2 monitored inputs to supervise the state of external equipment state relays and one single form C set of changeover contacts output to switch by command from the control.

TECHNICAL DATA	
OPERATING VOLTAGE	15 ... 30 V DC
QUIESCENT CURRENT	340 uA @ 24 V DC (no communications) 660 uA @ 24 V DC (LED blink enabled)
TEMPERATURE RANGE	-20°C ... 60°C
RELATIVE HUMIDITY	0 ... 95% (non-condensing)
DIMENSION	H: 93 mm W: 94 mm D: 23 mm
WEIGHT	110 g
INGRESS PROTECTION	IP30 (IP50 in M200E-SMB)
MAXIMUM WIRE GUAGE	2.5 sqmm
RELAY SPECIFICATION	2 A @ 30 V DC, resistive Load

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MI/DCMO - Single channel output module

Features:

- Rotary decade address switch
- Single output – relay or sounder mode
- Tri-color LED status
- Built-in short circuit isolators
- Plug-in connectors

TECHNICAL DATA	
OPERATING VOLTAGE	15 ... 30 V DC
QUIESCENT CURRENT	310 uA @ 24 V DC (no communications) 510 uA @ 24 V DC (LED blink enabled)
TEMPERATURE RANGE	-20°C ... 60°C
RELATIVE HUMIDITY	0 ... 95% (non-condensing)
DIMENSION	H: 93 mm W: 94 mm D: 23 mm
WEIGHT	110 g
INGRESS PROTECTION	IP30 (IP50 in M200E-SMB)
MAXIMUM WIRE GUAGE	2.5 sqmm
RELAY SPECIFICATION	unsupervised 2 A @ 30 V DC, resistive load

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MI/DCZRM - Conventional zone monitor module

Features:

- Connection of a zone with non-addressable detectors to an analogue addressable fire system
- Built in isolation allowing system installation in stages without loss of protection
- TRI-Colour Status LED
- Zone powered from addressable loop wiring or external 24V PSU
- Remote reset of non-addressable zone
- Compatible with: most non-addressable detectors, IS non-addresable detectors
- Monitoring of external power supply
- External fault input
- Plug-in connectors
- CPD approval to EN54-17 and EN54-18

End of Line Resistor – 3,9 K

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MI/D240CMO **-** Single 240 V AC relay module

Features:

- Rotary decade address switch
- Single double pole contact for 240VAC
- Tri-color LED status
- Built-in short circuit isolators

TECHNICAL DATA	
OPERATING VOLTAGE	15 ... 30 V DC
CURRENT COMSUMPTION	275 uA @ 24 V DC (no communications) 445 uA @ 24 V DC (one comms. every 5 sec. with LED blink enabled)
OPERATING TEMPERATURE	-20°C ... 60°C
RELATIVE HUMIDITY	0 ... 95% (non-condensing)
DIMENSION	H: 94 mm W: 93 mm D: 23 mm
WEIGHT	195 g
RELAY SPECIFICATION	5 A @ 30 V DC, resistive Load 5 A @ 240 V AC, resistive Load

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MI/DISO - Short-circuit isolator module

Features:

- Short-circuit isolation
- Plug-in connectors

TECHNICAL DATA	
OPERATING VOLTAGE	15 ... 30 V DC
QUIESCENT CURRENT	200 uA @ 24 V DC
TEMPERATURE RANGE	-20ºC ... 60ºC
RELATIVE HUMIDITY	0 ... 95% (non-condensing)
DIMENSION	H: 93 mm W: 94 mm D: 23 mm
WEIGHT	62 g
INGRESS PROTECTION	IP30 (IP50 in M200E-SMB)
MAXIMUM WIRE GUAGE	2.5 sqmm
FAULT DETECTION DELAY	100 ... 400 ms

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I/O Modules

- • I/O Modules
- MI/DMMI - Single channel input module
- MI/DMM2I - Dual channel input module
- MI/D2ICMO - Dual input single output module
- MI/DCMO - Single channel output module
- MI/DCZRM - Conventional zone monitor module
- MI/D240CMO - Single 240 V AC relay module
- MI/DISO - Short-circuit isolator module

- • Accessories for Modules
- MM200SMB - Surface mounting box for one module
- M200E-DIN-IV - DIN rail mounting bracket
- SMB6-V0 - Surface mount box for 6 modules
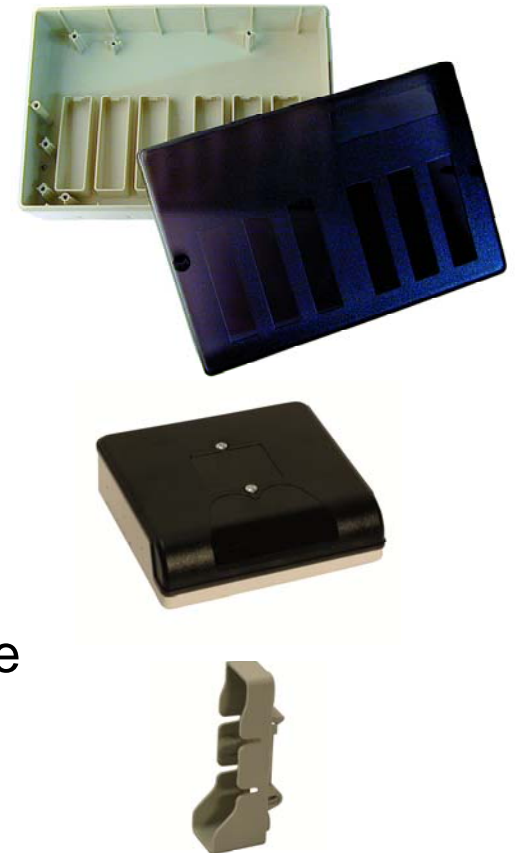
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ALARM DEVICES & SPECIAL DETECTORS

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ALARM DEVICES

- Addressable:

- WSO-PR-IO5 - Addressable wall, isolated sounder, red

- WSS-PR-IO5 - Addressable wall, isolated strobe, red

- WST-PR-IO5 - Addressable wall, isolated strobe, red

- Accessories for Alarm Devices

- BRR - Deep profile base, red, surface mounting

- WRR - Deep waterproof base IP65, red, surface mounting

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WSO-PR-I05 - Addressable wall mounted isolated sounder, red

Features:
- Rotary decade address switch
- Optional short-circuit isolation
- 32 built-in tones
- Lower power consumption

TECHNICAL DATA	
OPERATING VOLTAGE	15 ... 32 V DC (without isolator) 15 ... 28 V DC (with isolator)
QUIESCENT CURRENT	120 uA (non-isolation) 225 uA (isolation)
ALARM CURRENT	11.4 mA (high volume tone 21 @ 24 V)
MAX SOUND OUTPUT	97dB(A) +/-3dB @ 1 m
TEMPERATURE RANGE	-25ºC ... +70ºC
RELATIVE HUMIDITY	< 95 % (non-condensing)
DIMENSION	Ø: 121 mm H: 64 mm
WEIGHT	238 g
INGRESS PROTECTION	IP24 (with low profile base) IP44 (with surface mount base) IP65 (waterproof base)
MAXIMUM WIRE GUAGE	1.5 ... 2.5 mm2 max
COLOR	red

ACCESSORIES	
MI/B501AP/IV	Detector and AV standard base
BRR	Deep profile base red with MI/B501AP/IV

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WSS-PR-I05 - Addressable wall, isolated sounder strobe, red

Features:
- Rotary decade address switch
- Optional short-circuit isolation
- 32 built-in tones
- Lower power consumption

TECHNICAL DATA	
OPERATING VOLTAGE	15 ... 29 V DC (without isolator) 15 ... 29 V DC (with isolator)
QUIESCENT CURRENT	120 uA (non-isolation) 225 uA (isolation)
ALARM CURRENT	14.5 mA (high volume tone 11 @ 15 V)
MAX SOUND OUTPUT	97dB(A) +/-3dB @ 1 m
TEMPERATURE RANGE	-25ºC ... +70ºC
RELATIVE HUMIDITY	< 95 % (non-condensing)
DIMENSION	Ø: 121 mm H: 64 mm
WEIGHT	238 g
INGRESS PROTECTION	IP21C (with low profile base) IP44 (with surface mount base) IP65 (waterproof base)
MAXIMUM WIRE GUAGE	1.5 ... 2.5 mm2 max
COLOR	red (lens and housing)
STROBE FLASH RATE	1 Hz

ACCESSORIES	
MI/B501AP/IV	Detector and AV standard base
BRR	Deep profile base red with MI/B501AP/IV

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WST-PR-I05 - Addressable wall, isolated strobe, red

Features:
- Rotary decade address switch
- Optional short-circuit isolation
- Lower power consumption
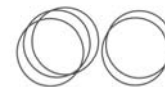- High output LED array technology

TECHNICAL DATA	
OPERATING VOLTAGE	15 ... 29 V DC (without isolator) 15 ... 29 V DC (with isolator)
QUIESCENT CURRENT	120 uA (without isolator) 225 uA (with isolator)
ALARM CURRENT	5.21 mA (without isolator) 5.4 mA (with isolator)
TEMPERATURE RANGE	-25°C ... +70°C
RELATIVE HUMIDITY	< 95 % (non-condensing)
DIMENSION	Ø: 121 mm H: 51 mm
WEIGHT	238 g
INGRESS PROTECTION	IP21C (with low profile base) IP44 (with surface mount base) IP65 (waterproof base)
MAXIMUM WIRE GUAGE	1.5 ... 2.5 mm2 max
COLOR	red (lens and housing)
STROBE FLASH RATE	1 Hz

ACCESSORIES	
MI/B501AP/IV	Detector and AV standard base
BRR	Deep profile base red with MI/B501AP/IV

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ALARM DEVICES

- Conventional:

- CWST-RW-S5 - Strobe with white strobe, EN54-23 C&W class

- CWST-RW-W5 - as above with IP65

- CWSO-RR-S1 - Sounder, red

- CWSO-RR-W1 - as above with IP65

- CWSS-RW-S5 - Sounder/strobe with white strobe EN54-23, C&W class

- CWSS-RW-W5 – as above with IP65

- Accessories for Alarm Devices

- CSR - Spare low profile red base pack

- CWR - Base deep IP65, red

- PS188 - O-ring for deep base

- PS189 - Seal for deep base

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DNRE Duct detector housing

Features:

- Photolelectric, integrated low-flow technology
- Includes detector base
- Air velocity rating from 0.5m/s to 20m/sec
- High output LED array technology
- Square or rectangular mounting Configuration
- Broad ranges for operating temperature 0°C to 70°C and humidity (0% to 95% non-condensing)
- Patented (18mm diameter) sampling tube installs from front or back of the detector with no tools required , with lengths from 30 to 325,5mm
- Clear cover for convenient visual inspection

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MI-LPB2-S2I Addressable beam detector

Features:

- Addressable loop powered beam detector
- 10-100 m range (from 70 to 100 m requires 6500-LRK)
- 4 fixed sensitivity levels
- 2 automatic variable sensitivity modes
- Standby, Fault and Alarm LED indicator

6500-LRK - Long-range reflector (70m-100m)

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FAAST-LT Loop based ASD

Proven high sensitivity laser detection technology View Detector

● Provides earliest detection in areas with smoke dilution or stratification

● Provides superior coverage

- 1 detector covers up to 1 zone (2000m^2 in Class C)
- Up to 6 holes in class A applications

Ultrasonic airflow

● Ensures airflow monitoring is unaffected by changing environmental conditions

● PINICLE / STAND ALONE

Series 200 Advanced Protocol / Clip

● Integration of aspiration onto intelligent Loop

FAAST LT – Detection for the toughest applications

● For all Class C applications

● For medium size Class B applications

● For small Class A mission critical applications

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Accessories PCV/ABS 25mm pipe

Sleeve

Angle 45°
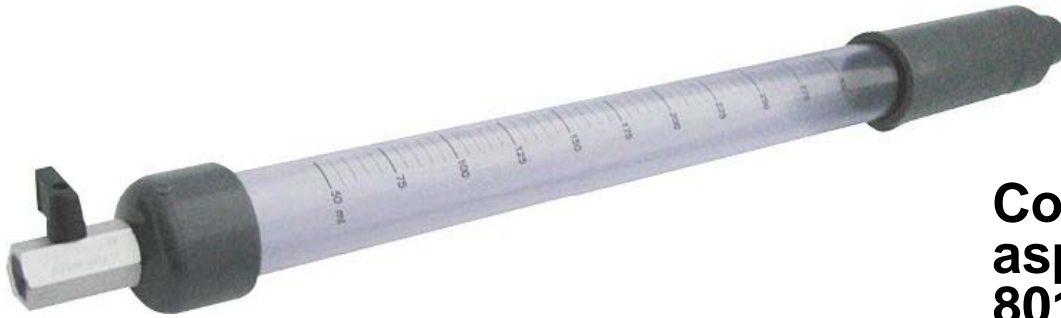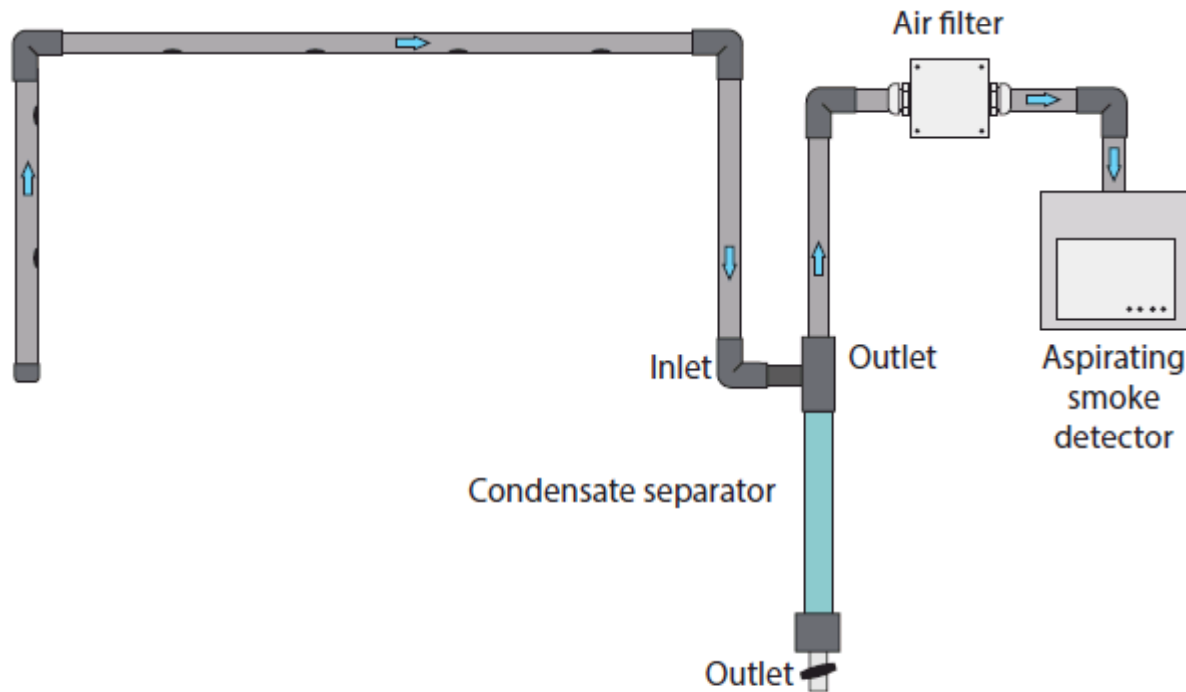
Angle 90°

T-Piece

Bend 45°

End cap

Mounting clip - closed

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Accessories

Condensate trap for aspirating smoke detectors 801606

Air filter

Inlet Outlet

Condensate separator

Outlet

Aspirating smoke detector

Application example

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Suctions hose set - 3m 761542.10

T-piece

False
ceiling

Pipe

Polyester hose

Suspended ceiling

Aspirator sampling
assembly
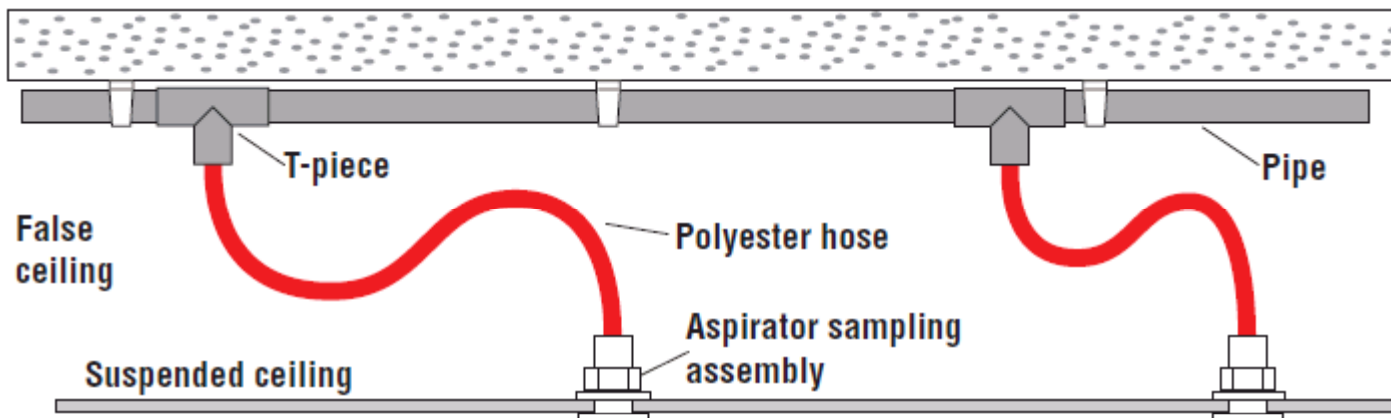
Application example: monitoring of room

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Air filter for aspirating smoke detectors 801544.10

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FAAST-LT Loop based ASD

MI-FL2011EI - one channel loop based

MI-FL2022EI - two channel loop based

**SINGLE PIPE 100M
AGGRIGATE PIPE 160M
CLASS C 18HOLES
CLASS B 6 HOLES
CLASS A 3 HOLES**

Windows based all in one
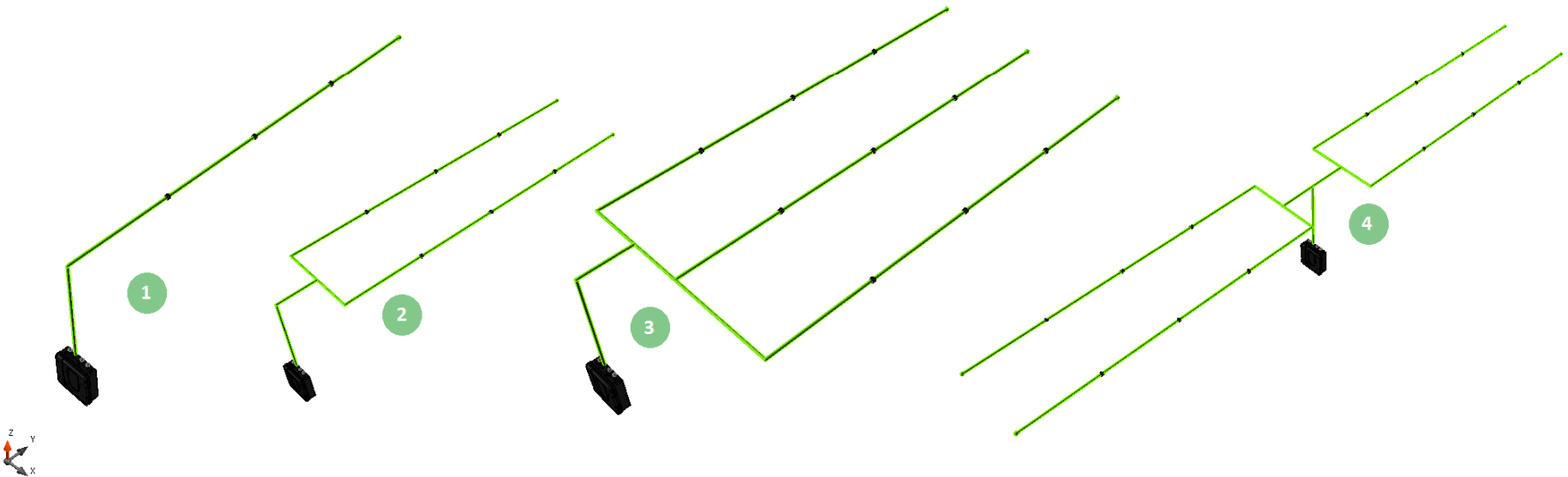 software for
• Pipe design
• Device configuration
• Monitoring

Standard pipe systems for aspirating

1) Pipe system I
2) Pipe system U
3) Pipe system M
4) Pipe system 2U

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THANK YOU
FOR
YOUR ATTENTION

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