Available for all applications

- Leisure complexes
- Commercial Buildings
- Hotels
- Restaurant Kitchens
- Car Parks

Features

- Up to 256 detectors per system
- Available for LPG, CH4, H2, CO, NO, NO2
- Cabling savings
Safe, accurate and reliable
The CPS™ gas controller provides accurate and reliable monitoring for the highest level of protection in buildings and car parks. The system is designed to comply with the highest safety standards.

Economical
Fully addressable sensors significantly reduces installation costs and cuts cost of ownership.

Versatile
Available in wall- and rack-mounted versions, the CPS™ controller and its various modules are user-programmable for specific applications. The system’s networking technology also enables the CPS to adapt to any installation up to:
- 256 sensors capable of monitoring 6 different gases
- 256 addressable relays
- 256 logic inputs
- 256 analog outputs
## Module specifications

<table>
<thead>
<tr>
<th>CPS 10 sensor module</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions</strong></td>
<td>118 mm x 110 mm x 60 mm (4.65 x 4.35 x 2.36)</td>
</tr>
<tr>
<td><strong>Degree of protection</strong></td>
<td>IP 65</td>
</tr>
<tr>
<td><strong>Cable glands</strong></td>
<td>2 M16 cable glands 4-8 mm diameter</td>
</tr>
<tr>
<td><strong>Consumption at 24 Vdc</strong></td>
<td>2.5 mA for toxic detectors 50 mA for combustible gas detectors</td>
</tr>
<tr>
<td><strong>Status indication after calibration</strong></td>
<td>Red/green electroluminescent diode</td>
</tr>
<tr>
<td><strong>Calibration</strong></td>
<td>Automatic, non-intrusive</td>
</tr>
</tbody>
</table>
| **Measuring ranges** | Liquefied Petroleum Gas – 0-100% LEL in 1% increments  
Methane – 0 to 100% LEL in 1% increments  
Hydrogen – 0 to 100% LEL in 1% increments  
Carbon Monoxide – 0 to 300 ppm in 1 ppm increments  
Nitric Oxide – 0 to 100 ppm in 1 ppm increments  
Nitrogen Dioxide – 0 to 30 ppm in 0.1 ppm increments |

<table>
<thead>
<tr>
<th>CPS RM4 or RM8 relay module</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions</strong></td>
<td>125 mm x 165 mm x 60 mm (4.92 x 6.5 x 2.36)</td>
</tr>
<tr>
<td><strong>Number of relays</strong></td>
<td>4 relays (CPS RM4) or 8 relays (CPS RM8) – Contacts: 3 poles</td>
</tr>
<tr>
<td><strong>Contact rating</strong></td>
<td>2 A / 250 V</td>
</tr>
<tr>
<td><strong>Consumption at 24 Vdc</strong></td>
<td>3.4 mA</td>
</tr>
<tr>
<td><strong>Connection</strong></td>
<td>Screwing Terminals (cable: 1.5 mm2)</td>
</tr>
<tr>
<td><strong>Mounting</strong></td>
<td>On DIN rail</td>
</tr>
<tr>
<td><strong>Relays can energized or de-energized. All relay modules come with 2 dry logic inputs.</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CPS DI16 logic input module</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions</strong></td>
<td>125 mm x 165 mm x 60 mm (4.92 x 6.5 x 2.36)</td>
</tr>
<tr>
<td><strong>Number of dry logic inputs</strong></td>
<td>16</td>
</tr>
<tr>
<td><strong>Consumption at 24 Vdc</strong></td>
<td>3.2 mA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CPS A04 analog output module</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions</strong></td>
<td>125 mm x 165 mm x 60 mm (4.92 x 6.5 x 2.36)</td>
</tr>
<tr>
<td><strong>Number of analog outputs</strong></td>
<td>4</td>
</tr>
<tr>
<td><strong>Consumption at 24 Vdc</strong></td>
<td>130 mA</td>
</tr>
</tbody>
</table>
CPS™ central detection controller

Wall-mount dimensions
320 mm x 180 mm x 95 mm (12.6" x 7.09" x 3.74"")

Degree of protection
IP 54

Cable Glands
5 M20 cable glands
- Diameter: 5 to 12 mm for power supply and local relays
9 grommets - Diameter: 5 to 7 mm or PG-9.

Rack-mount dimensions
Length: 19" – Height: 4 U (176 mm)

Degree of protection
IP 31

Operating conditions
Ambient temperature
-10°C to +40°C

Storage temperature
-20°C to +65°C

Humidity
5 to 95% noncondensing

Main power supply
Voltage: 85 to 264 VAC
Current: 1.5 A (115 VAC) / 0.8 A (230 VAC)

Internal back-up battery
Optional, 600 mA/h capacity

Consumption
140 mA + 12 mA per measurement line (240 mA max.)

Measuring lines
Capacity
8 lines of 32 modules

Cable type
2 shielded twisted pairs RS-485 cable

Module power supply
12 to 30 VCC power supply delivered to modules
via the central controller

Digital Module Network
ModBus RS-485, 1-32 addresses selected with mini switches.

Isolation
1500 V between the power supply and the digital network

Display
Backlit LCD display screen
(2 lines of 32 characters each – 1 line of pictograms)

3 operation status LEDs: OK, Fault, Alarms

Keyboard
Intuitive 7-key

Local buzzer
Audible alarm and fault signals

Integrated printer
Optional for rack-mounted version

Alarms
Number of alarms
6 per sensor (Out of range – Fault)

Programmable thresholds
For instantaneous or averaged values, increasing or decreasing values, and manual or automatic acknowledgement

3 on-board relays
R1 (alarm/fault) – R2 (alarm) – R3 (alarm)

Contacts Rating
2A/250 VAC-30 VCC (resistive charge)

Serial Outputs
ModBus RS-485 protocol
- (connection with a centralized supervision device)
RS-232 or USB: USB protocol priority
- (permanent connection to system configuration)

Approvals
Low Voltage Directive
This device is in compliance with the security requirements of Directive 73/23/EEC, modified by Directive 93/68/EEC, based on standard 61010-1 and its second amendment

EMC Electromagnetic compatibility
According to EN 50270

Metrology
According to VDI 2053 for carbon monoxide gas detectors

Approved by DCD (Dubai Civil Defense)

Our quality assurance programmes demand the continuous assessment and improvement of all 3M | Gas & Flame Detection products. Information in this leaflet could thus change without notification and does not constitute a product specification.