

# Addressable Modules

## M512ME Conventional Interface Module

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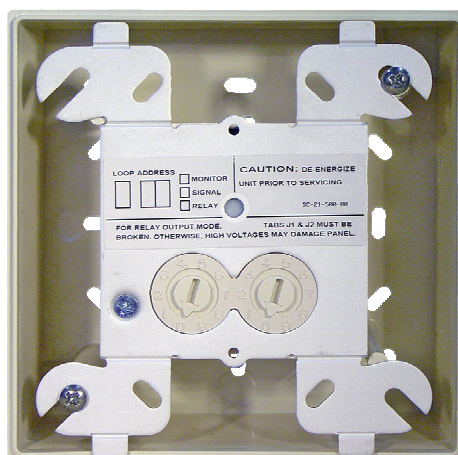
www.pertronic.com.au

The M512ME conventional zone monitor module allows a zone of conventional detectors to be connected to a Pertronic analogue addressable system. The conventional zone can be powered from the analogue communication line or from an external power supply. Where the conventional zone is powered from an external power supply, the communication line is fully isolated from the conventional zone and from the power supply. Where the conventional zone is powered from the communication line, the zone current limit can be reduced to 20mA by means of a break-off tab, in order to reduce the loading on the communication line in case of an alarm or short circuit. Where no external power supply is used, this module is not compatible with systems using short circuit isolators.

A fault signal will be transmitted to the panel in the case of an open or short circuit on the conventional zone wiring, or when the external fault input is pulled low. Where the M512ME is used with intrinsically safe detectors, a short circuit on the detector side of the barrier will result in an alarm signal and not a fault signal. If any normally open switch devices are connected to this module, the alarm switching resistance should be 470 ohms.

### Features:

- Connection of conventional detectors to intelligent systems
- Monitors open circuit and short circuit faults
- Zone powered from communications line or 24V PSU
- Remote reset of conventional zone
- Compatible with:
  - 100 series detectors
  - 1151EIS and 545EIS Intrinsically Safe detectors
  - BEAM1224 optical beam detector (with separate power supply)
- Monitoring of external power supply
- External fault input
- Fits SMB500 mounting box
- SEMS screws for easy cable connection
- Direct dial decade address entry
- Module visible LED controlled by panel
- Magnet test feature

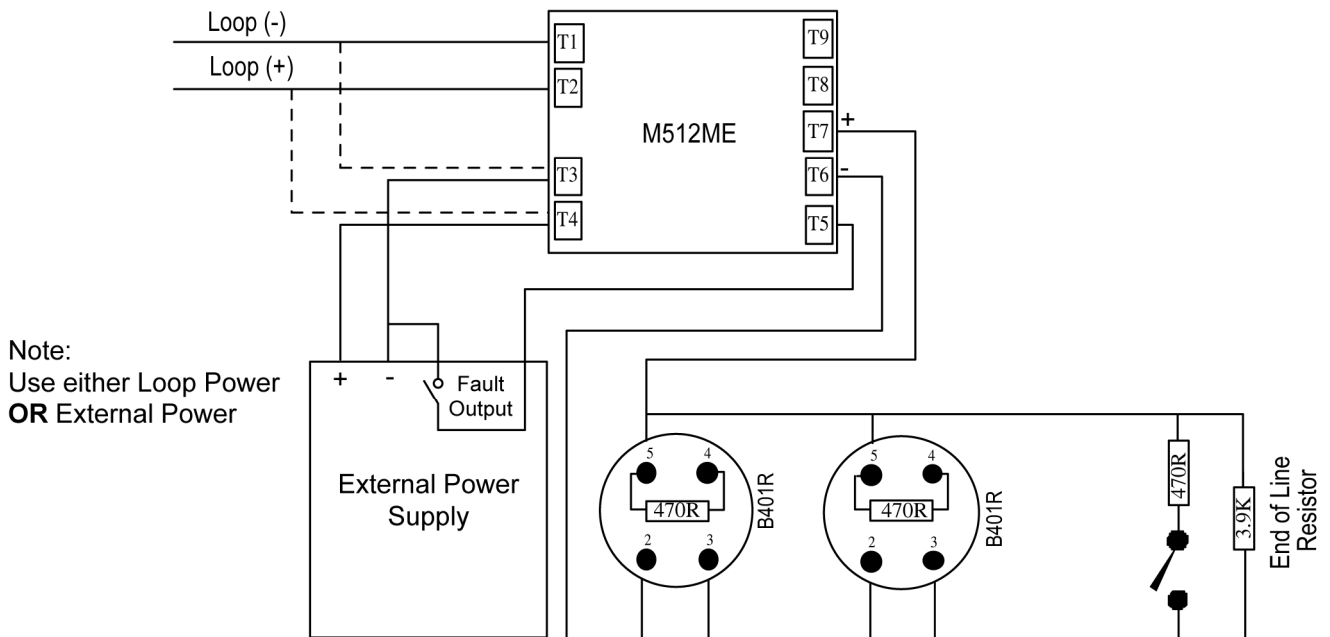


M512ME

## Specifications:

🔌 Dimensions (in SMB500):	125mm (h) x 125mm (w) x 50mm (d)
🔌 Cable:	3mm <sup>2</sup> max
🔌 Weight:	142g
🔌 Operating Temperature:	-10°C - + 60°C
🔌 Operating humidity range:	10% to 93% relative humidity
🔌 Communication line supply voltage:	15 – 32 V
🔌 Communication line standby current:	300µA max (Communication every 5 secs, external PSU)
🔌 Communication line standby current:	5.1mA max (LED on, external PSU)
🔌 Conventional zone max. standby current:	2mA (when powered from communication line)
🔌 Conventional zone current limit:	20mA/60mA (selectable by break-off tab)
🔌 Maximum conventional zone voltage:	25.5V
🔌 External power supply voltage:	18 – 32V
🔌 Maximum conventional line impedance:	100Ω
🔌 Maximum Detector Quiescent Current:	2.5mA total (PSU minimum voltage = 18V)
🔌 Maximum Detector Quiescent Current:	4mA total (PSU minimum voltage above 20V)

## Connection Diagram



## Ordering Information:

### Description

Module – Conventional Zone Interface  
Surface Mount Backbox

### Part Number

M512ME  
SMB500

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