## Analogue Plant Control Module CHG-PCM(SCI)



## Features

- Single loop address
- Loop powered
- 4 change-over relay outputs
- 4 independent inputs for monitoring of voltfree contacts
- Each input can be configured to monitor either Normally Open or Normally Closed contacts
- DIN rail version available
- Both models feature an integral short-circuit isolator
- Approved by LPCB
- SIL Level 2 approved variant available

## Description

The CHQ-PCM(SCI) is a loop powered input/output module with four independent changeover relay outputs and four monitored inputs. The outputs feature N/O and N/C volt free contacts and can be driven separately under the control of the fire alarm panel, to be used for the control of devices such as dampers or for plant and equipment shutdown. The four inputs are provided for local fire and fault monitoring and these are fully monitored for open and short circuit, which if required, can be enabled or disabled in pairs using a two-way DIL switch. **Note:- The state of the relay contacts will be indeterminate until the unit is powered**.

The unit is also available in a DIN Rail mountable enclosure – CHQ-PCM/DIN(SCI). A back box is also available (CHQ-BACKBOX) which, when used in conjunction with the CHQ-PCM(SCI), increases the IP rating to IP65. When using heavy cables we recommend the use of the SMB-1 Module Enclosure inconjunction with the SMB-ADAPTOR plate.

| Specification                 |                                    |                     |  |   |
|-------------------------------|------------------------------------|---------------------|--|---|
| Order codes                   |                                    |                     | CHQ-PCM(SCI) (module)<br>CHQ-PCM/DIN(SCI) (DIN module)<br>CHQ-PCM(SCI)/SIL |   |
| Transmission method           |                                    |                     | Digital communication using ESP  |   |
| Loop                          | Operating voltage                  |                     | 17 - 41 VDC  |   |
|                               | Quiescent current                  |                     | 300 μΑ   |   |
|                               | Current consumption whilst polling |                     | 22 mA ± 20 %   |   |
| Relay contact rating          |                                    |                     | 30 VDC max, 1 A (resistive load)   |   |
| Input E.O.L resistor          |                                    |                     | 10 kΩ, ±5%, 0.25 W   |   |
| Input threshold level         |                                    |                     | ON=470 Ω, Short cct <50 Ω, Open cct >100 KΩ                                |   |
| Maximum rated current         |                                    | 1 A (switch closed) |  |   |
| Leakage current               |                                    |                     | 3 mA (switch open)   |   |
| Woight (g                     | )<br>ns (mm)                       | СНО                 | 332  | L157 x W127 x H35 (CHQ Module with lid)   |
| Weight (g                     |                                    | Module              | 567  | H79 (CHQ Module with lid and CHQ-BACKBOX) |
|                               |                                    | DIN Module          | 150  | L119 x W108 x H24 (CHQ DIN Module)        |
| Colour and enclosure material |                                    |                     | CHQ Module & CHQ-BACKBOX white ABS,<br>DIN Module green ABS                |   |

Fire alarm control panel compatibility is required for both variants of this product.

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