

# Analogue Plant Control Module

## CHQ-PCM(SCI)



### Features

- ▶ Single loop address
- ▶ Loop powered
- ▶ 4 change-over relay outputs
- ▶ 4 independent inputs for monitoring of volt-free 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

### Description

The CHQ-PCM(SCI) is a loop powered input/output module with four independent change-over 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 in conjunction with the SMB-ADAPTOR plate.

### Specification

Order codes	CHQ-PCM(SCI) (module) CHQ-PCM/DIN(SCI) (DIN module)		
Transmission method	Digital communication using ESP		
Loop	Operating voltage	17 - 41 VDC	
	Quiescent current	300 $\mu$ A	
	Current consumption whilst polling	22 mA $\pm$ 20 %	
Relay contact rating	30 VDC max, 1 A (resistive load)		
Input E.O.L resistor	10 k $\Omega$ , $\pm$ 5%, 0.25 W		
Input threshold level	ON=470 $\Omega$ , Short cct <50 $\Omega$ , Open cct >100 k $\Omega$		
Maximum rated current	1 A (switch closed)		
Leakage current	3 mA (switch open)		
Weight (g) Dimensions (mm)	CHQ Module	332	L157 x W127 x H35 (CHQ Module with lid)
	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, DIN Module green ABS		

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