

Chameleon Controller CC100



- ◆ **Logic Controller**
- ◆ **Programmable**
- ◆ **Fully integrated**

Features of the Chameleon

- ***Accepts inputs from 2 analogue 4-20mA sources and 4 volt-free relays (this is expandable). The inputs can come from a wide range of sensors used to monitor the status of almost any type of equipment or process.***
- ***Provides 2 analogue 4-20mA and 4 volt-free relays as outputs which can be used to control other operations when the controller has processed the input data.***
- ***The logic used to perform the monitoring and control operations can be written on a P.C. and downloaded to the controller.***
- ***The information from the controller can also be downloaded to a PC, or, in the case of a remote installation it can be collected via a modem.***
- ***An onboard real-time clock controls and times events. The clock can be used to initiate an action or to control the length of time of an event. It can also be used to initiate reactions, e.g. an action and response alarm delay.***
- ***A digital display indicates the currently monitored readings and the status of the I/O settings. Constants used by the software can be entered using the front panel keypad.***

An Overview

The Chameleon gives intelligent control at a fraction of the price of a bespoke programmable logic controller (PLC). It also offers greater flexibility in development possibilities without prohibitive additional costs. The cost advantages can be astounding when a large number of PLCs can be replaced with Chameleons (e.g. Water Process Control at a few hundred sites).

CC100 is an integrated programmable logic controller, the cost effective way to monitor and control a whole range of equipment. The unit offers inputs, outputs, keypad, digital display and onboard real-time clock. All of the monitoring and control parameters can be edited and downloaded from a PC.

Chameleon is designed to fit in with almost any system, and can be configured to handle a wide range of control and monitoring applications. One control system that satisfies a spectrum of applications.

Optional Features

- *Additional input connections.*
- *Your own algorithms may be used.*
- *DIVERSE can write the algorithms to suit your requirement.*

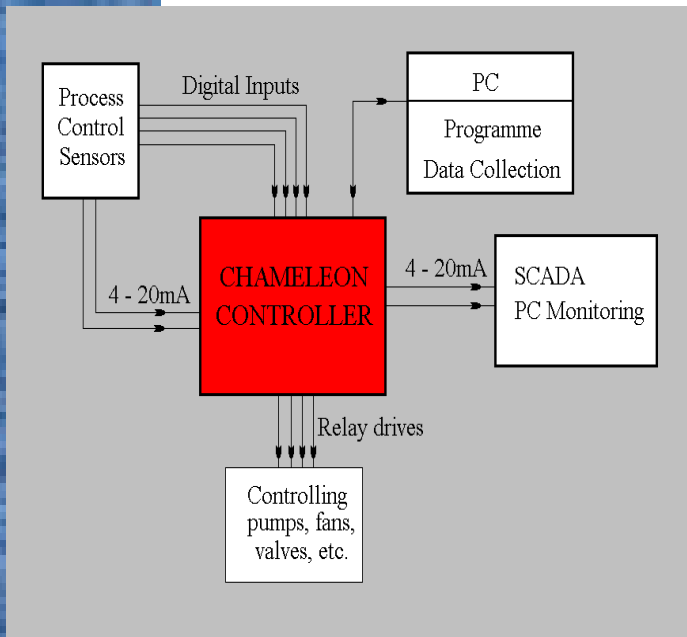
Applications

- *Ideal for controlling sewage and water treatment processes, security systems, irrigation installations, small chemical plants, ventilation and heating systems, chemical processes for reaction control, and many other applications.*
- *Can be used to read temperature, pressure, levels, flow rates, switches, pump and valve settings etc.*
- *Can be used to control pumps, fans, valves, heaters, motors, alarms, etc.*

About the CC100

The Chameleon's fully integrated design contains all the components required for a complete control system.

By integrating the inputs, outputs, display, memory and user interface it is not only possible to cut costs but also streamline the whole installation process. This is particularly useful when changes to existing control procedures are required. Chameleon is an ideal replacement when process control improvements are being made.



OEM Application

The system can be configured for a variety of OEM applications, tailoring the performance to the needs of the individual customer.

DIVERSE offers a complete programming service to customise the Chameleon to meet particular requirements.

Specifications and costs will vary depending upon the selected options.

Chameleon CC100 Specification

Inputs:	2 analogue 4-20mA sources 4 volt-free relays
Outputs:	2 analogue 4-20mA 4 volt-free relays
Memory:	Uses on board, programmable 64k EPROM with 64k RAM and up to 32k EEPROM
Display:	16 x 2 character backlit LCD.
Enclosure:	IP65 rated case with latched transparent front cover
User interface:	Front panel four function keypad
Interface options:	RS232 and modem options
PC software option:	Collect and display data Reset software. Read and load controller attributes. Access collected data. Report on the history of control. Perform diagnostics
PC control option:	Activate all instrument functions remotely
Calculation algorithms:	User defined
Alarms:	Output relays can be programmed to operate alarms under user defined conditions
Alarm delay:	Settable 1 - 99 minutes
Clock:	On board timer displaying time and date. 1 second resolution. Year 2000 compliant
Power:	85V to 265V ac
Size:	220 x 180 x 110mm
Weight:	1.7kg

Environmental	IP65, 0-30C operating, 90% RH non condensing
Warranty:	12 months
Approvals:	CE

Ordering Options

Chameleon Controller	CC100
Chameleon with modem:	CC100-MOD
For dc option add "24V" e.g.	CC100-M-24V
Serial software:	CC100-PC-Serial
Remote software:	CC100-PC-Remote

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