

Micro 4000 Controller

Ampcontrol's Micro 4000 System Controller is a highly reliable, 4 channel, micro-processor controlled monitoring and alarm system for use with our industrial gas detection range.

A fully featured 4 channel controller that will accept all 4-20mA signals and is Modbus® compatible.

The Micro 4000 also comes in a carpark version designed to Australian Standards for use with our iQguard Car Park gas detector as well as a Flameproof version for hazardous areas.

Versions:

- Standard version
- HVAC version SafeTguard
- Flameproof version



Features

- + Microprocessor controlled
- + Accepts inputs from combustible and toxic gas sensors, flame sensors or any 4-20mA device
- + Two-line alpha-numeric display
- + User friendly
- + Retains data on loss of power
- + Fully programmable from front panel
- + Built-in self diagnosis
- + Fan control logic option
- + Software "Voting Logic" output
- + RS485 Modbus® digital interface
- + Optional flameproof enclosure IEC certified
- + AS1668 compliant fan control logic
- + Built in outputs for variable speed drives
- + Suitable for HVAC applications

Micro 4000 Controller

Specifications

Physical Specifications

Dimensions	230mm x 177mm x 90mm
Weight (Including options)	2.4kg
Housing Material	Poly Vinyl Chloride
Environmental Protection	IP54
Operating Temperature Range	-20°C to +50°C
Operating Humidity Range	0 - 100% relative humidity (non-condensing)

Electrical Specifications

Power Requirements (including options) Note: values of current are approximate.	240Vac, 50/60Hz, 125mA, or 110Vac 50/60Hz, 250mA, or 24 ±6Vdc, 0.9A
Input Channels	Four
Types of Input (one per channel)	Three-wire Bridge Sensors (3 Watts maximum) 4-20mA, 24Vdc Loop-powered Sensors 4-20mA, 3-wire Sensors(2-12Vdc adjustable) 4-20mA, 3-wire Sensors (24 ±6Vdc fixed)
Note: with special auxiliary junction box	Two-wire Fire/Flame Detection Units (See Note)
Outputs (standard configuration)	Common Fault Relay, SPDT, 7A, 240Vac/30Vdc Common Warn Relay, SPDT, 7A, 240Vac/30Vdc Common Alarm Relay, SPDT, 7A, 240Vac/30Vdc
Outputs (4-20mA output board option) Note: one output per channel	Four 4-20mA source outputs into 600 Ohms (max.)
Outputs (auxiliary relay board option) Note: one of each relay type per channel	Four Warn Relays, SPDT, 7A, 240Vac/30Vdc Four Alarm Relays, SPDT, 7A, 240Vac/30Vdc

Visual and Audible Indicator Specifications

Liquid Crystal Display	Backlit alphanumeric display indicates: channel, status, unit of measure, substance/area measured, previous minimum/maximum values and channel output current.
Light Emitting Diodes	Indicate status of: power, warn, alarm and fault
Electronic Buzzer	Audible alarm for warn, alarm and fault