

# STATUS SCIENTIFIC CONTROLS

## FIXED GAS DETECTION SYSTEMS

FIXED SYSTEM FOR GAS AND SAFETY MONITORING AND CONTROL

### Mentor MCU4 ~ 1 to 16 channel control unit

Technical Data Sheet



Optional terminal chamber



#### Features include:

- Large LED backlit full-graphics display of all sixteen channels
- Data logging and event data logging as standard
- 4 master alarm relays, 3 channel relays
- Fully configurable relays
- Dedicated 24 v DC drivers for audible and visual alarms
- Full calibration menu via external push buttons
- 1 – 16 input modules available with optional built in safety barriers
- Lockable steel enclosure, water and dust proof to IP66
- Interchangeable gland plates fitted on upper and lower face
- Available with optional terminal chamber
- Built in battery back up

Size (nominal) 'mm'	475 x 538 x 208
Weight (approx)	30Kg
Operating Temp	-10°C to +50°C
Storage Temp	-20°C to +50°C
Humidity Range	0 to 95% R.H. Non-condensing
Input Voltage	24V DC, or 120/230V AC 50/60 Hz Tolerance $\pm$ 10%
Environmental Rating	IP66

**Note:**

For compliance with UL3101-1 and CSA22.2 No 1010.1, the following environmental conditions apply:  
Indoor use; Altitude up to 2000m.  
Temperature 0 to 40°C.  
Maximum relative Humidity 80% decreasing linearly to 50% relative humidity at 40°C.  
Installation Category (Over Voltage Category) II.  
Pollution Degree 2.

**User Interface**

Display	Backlit 240 x 64 dot Liquid Crystal Display (LCD)	
Keyboard	2 x 8 button multifunction keypad	
LED Indications	Red	Indicates alarm condition.
	Green	Indicates power ON (flashes when powered from int. batteries)
	Yellow	Indicates fault condition.

**Input Modules**

Number of channels	16 max	
Signal Inputs	4-20mA Current Loop from 24V source. 4-20mA Current Loop sink to 0V. 3-Wire Pellistor Systems. DC Voltage Input.	
Analogue Output	4-20mA Current source proportional to detected signal. 4-20mA Current sink proportional to detected signal. 1-5V Voltage output proportional to detected signal.	
3 – Relays Contacts Rating	1 relay assigned to each alarm level (low, medium and high). Double Pole Changeover Contacts (voltage free). 5A 240V AC.	

**Distribution Module**

2 – Common Outputs	Output one for external audible alarm (200ma maximum)
	Output two for external visual alarm (200ma maximum)
External Reset	Connection for normally open switch contacts (5V max present at terminals).

**Common Relay Module**

4 – Common Relays	1 Relay assigned to each alarm level (low, medium, high). 1 Relay designated as fault relay. Double Pole Changeover Contacts (voltage free). 8A 240V AC.
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**Batteries**

	2 x 12V 1.2Ahr
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Sealed lead acid battery type