

# STATUS SCIENTIFIC CONTROLS

## FIXED GAS DETECTION SYSTEMS

FIXED SYSTEM FOR GAS AND SAFETY MONITORING AND CONTROL



### Mentor SCM ~ Single channel control unit

Technical Data Sheet



*With integral sensing head*

*With remote sensing head*

#### **Features include:**

- Alphanumeric display with back light
- Built in audible visual alarms
- Micro-controller based
- Fully configurable
- Choice of remote and directly mounted gas detector heads
- One-man calibration for remote mounted gas detector heads
- Lockable steel enclosure; water and dust proof to IP66
- Password protected
- Battery back-up
- 3 alarm outputs

**Format** Slim wall mounting cabinet  
**Weight** 4 kgs  
**Dimensions** 249mm x 268mm x 200mm

**Operating voltages**

110 – 120v AC 50-60Hz  
220 – 240v AC 50-60Hz  
20 – 28v DC

**24 volt common outputs (open collector)** Output one for external audible alarm (200ma maximum)  
Output two for external visual alarm (200ma maximum)

**Relays** Relay one operates when Alarm Level 1 is encountered  
Relay two operates when Alarm Level 2 is encountered  
Relay three operates when a fault condition occurs

**LED indicators** Green LED indication of POWER ON  
Red LED indication of ALARM CONDITION  
Yellow LED indication of FAULT CONDITION

**Visual indication unit** Green indication status : healthy  
Red indication status : alarm  
Yellow indication status : fault / mains fail

The input circuit is designed to accept virtually all sensor configurations available. It can be connected to any sensor with either of the following characteristics:-

**Input formats** Current loop 4-20mA, internal or external variable 5-24v (source)  
Current loop 4-20mA, internal or external (sink)  
3 – wire pellistor  
Voltage input

**Output formats** 4-20mA current source proportional to detected signal  
4-20mA current sink proportional to detected signal  
0-5v voltage output proportional to detected signal  
  
Universal input/output card with optional isolating barriers

