



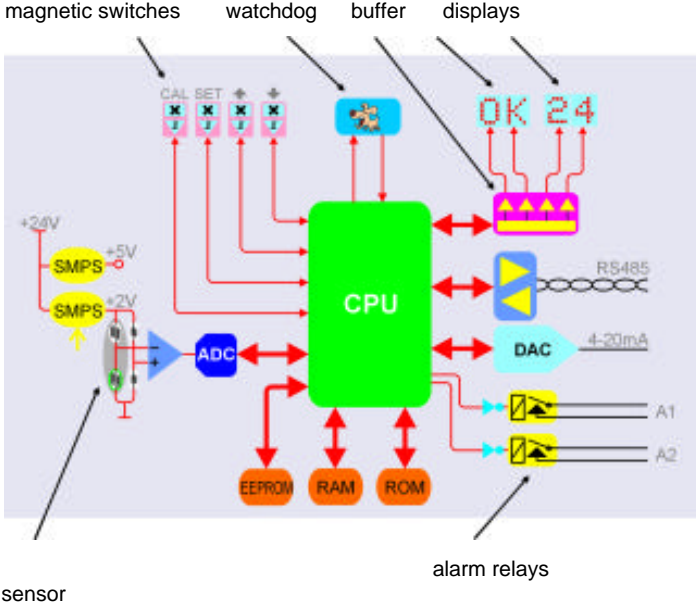
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The Monicon S500 is a high quality, self contained, Intelligent gas sensor that offers host of sophisticated features to provide fast, reliable warnings against explosive concentrations of combustible gases.

The S500 will operate as a standalone instrument or in conjunction with a controller or a computer. The S500 is housed in an attractive, compact diameter enclosure and may be configured or calibrated by one person, without declassifying the hazardous area. The gas concentration is indicated on a 4-character alphanumeric display which also indicates instrument status. The S500 is fully user programmable and no physical adjustments are necessary during calibration as the on-board computer assists the calibration procedure. All user variables are stored in non-volatile memory (EEPROM) and retained indefinitely even during total power failure.

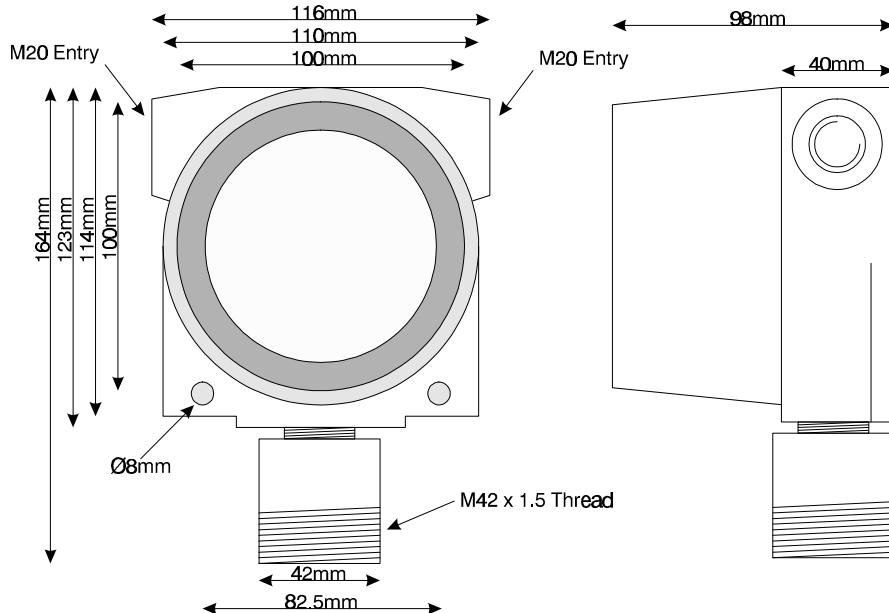
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The S500 uses the proven Monicon CGS500 thermocatalytic sensor combined with advanced, surface-mount microprocessor and firmware technology. Combustible gas oxidising on the surface of a thermocatalytic element causes an imbalance in a Whetstone bridge circuit. This imbalance is amplified to give a voltage proportional to the gas concentration. This voltage is then processed by the CPU. A watchdog circuit monitors the system operation and resets the CPU if a failure is detected.

The S500 is calibrated or user-programmed by activating the magnetic switches with a magnet. The operator is then guided through a variety of options by a user-friendly menu. The CPU constantly verifies system operation. In the unlikely event of a fault, the operator is alerted with a helpful diagnostic display.

Nominal 24Vdc (operates from 20Vdc to 35Vdc)
 2W nominal, 2.3W maximum
 1A Electronic Fuse (Auto reset)
 PCB mounted, 7 Joule, Metal Oxide Varistor
 4-20mA referenced to 0V
 500W maximum
 Operational: 30 seconds, Specification: 60 minutes
 -20°C to +66°C
 0 - 100% LEL
 -18°C to +60°C
 Typically <15 seconds
 10-90% RH non condensing
 <7% over three months (complies with EN50057)
 ±5%
 ±2%
 1%
 Typically 5-7 years
 1.8Kg (including sensor)
 Slave mode, half duplex, polled
 100
 2400-N-8-1
 1 byte checksum
 40mS
 SPST, NO, 125V @ 0A5 (30V DC @ 1A) each for A1 & A2
 Complies with EN50081 and EN50082
 300mL per minute
 2 holes, diam 8mm, spaced 82.5mm
 2 entries, each M20 x 1.5
 PCB mounted terminal blocks to accept 1.5mm² cable
 Sand-cast, copper-free aluminium with blue epoxy finish.



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