



Environmental Sampling Unit

Xgard ESU

The Environmental Sampling Unit is a unique product, providing a cost-effective solution for monitoring high-density gases such as chlorine, sulphur dioxide and flammable vapours, in environments where the positioning of conventional sensors is not practical. The sampling chamber is fitted with an electric fan, which draws an air sample via a pipe. Xgard gas detectors are fitted to the chamber to monitor for the presence of flammable or toxic gases.

The Crowcon Environmental Sampling Unit, low cost gas detection you can trust.

Low purchase and maintenance costs

- The ESU is ideal for monitoring large enclosed areas such as chlorine stores. One unit can monitor up to 12 metres of pipe, removing the need for multiple sensors mounted at floor level.
- Less sensors means lower maintenance costs.

Adaptable installation options

- The ESU is supplied with a range of accessories to suit any installation requirements. It can monitor from a single point, along an entire floor space or even areas subject to flooding such as a wet well.
- The ESU's rugged design and high-impact ABS enclosure make it suitable for use in harsh environments.

Wide range of sensors

- The ESU is used with Crowcon's versatile Xgard range of detectors, enabling a wide range of gases to be monitored.
- A hazardous area certified version is available for safely monitoring flammable vapours.

High integrity design

- The ESU is designed for connection to Crowcon's class-leading Gasmaster or Vortex control systems, which display the gas level and monitor the ESU fan to ensure it has not slowed or stopped.
- An alarm is raised in the event of a gas leak, fan blockage or fan failure.

Xgard ESU

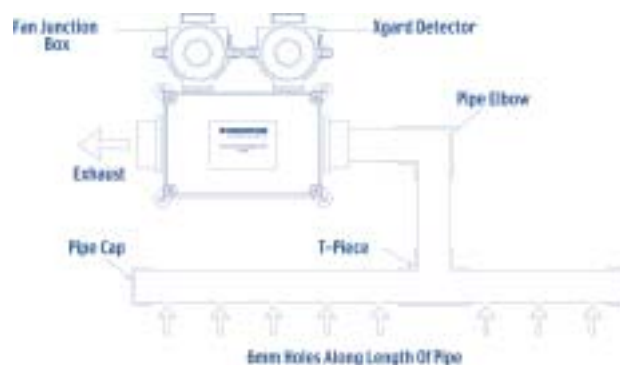
Specifications

ESU Part Numbers	Hazardous area certified ESU: C01987 (for one sensor) C011029 (for two sensors) C011030 (for three sensors)
	Non certified ESU (safe area): C011004 (for one sensor) C011031 (for two sensors) C011032 (for three sensors)
Dimensions	397 (w) x 363 (h) x 180 (d) mm (15.3 x 10.6 x 7 inches)
Material	Polycarbonate
Fan Power	3 Watts
Supply Voltage (Fan)	24v DC nominal from Gasmaster or Vortex
Operating Temperature	-10 to + 50°C (14 to 104°F)
Approval Code (certified type only)	Fan: ATEX Ex II 2 G EEx m IIC T4 Fan junction box: ATEX Ex II 2 G EEx d IIC T6
Certificate Number	Fan: Baseefa 03 ATEX 0033X Fan junction box: Baseefa 04 ATEX 0024X
Piping	60mm Diameter PVC (2" pipe)
Maximum Pipe Length	12 Metres (36')
Weight (excluding piping)	3.5kg (7.7 lbs) excluding gas detector
Accessories	The ESU is supplied with a set of fittings comprising: Retaining nut, washer and gasket for mounting the Xgard detector(s). 2 elbows, 2 end caps, 1 T-piece, 2 reducing bushes and 4 pipe clamps. 2" pipe is available separately in 2 metre lengths.

Note: Xgard gas detectors must be purchased separately. ESU is not compatible with Xgard Type 4 high temperature gas detector.

Installation Options

For monitoring along a horizontal surface:



For monitoring a wet-well:

