


# Portfolio

<b>CLIENT</b>	SMITHS DETECTION
<b>PROJECT</b>	Design/Development
<b>PRODUCT</b>	Air Sampling System
	<ul style="list-style-type: none"><li>ENGINEERING</li><li>DESIGN</li><li>DEVELOPMENT</li><li>CONSULTANCY</li><li>MANUFACTURE</li></ul>



## EXHAUSTIVE RE-DESIGN ENSURES CONSISTENT AIR FLOW (and improved mounting flexibility)

The Smiths Detection GID-2A™ fixed Chemical Agent Detector offers the most advanced continuous detection and assessment capability available. Designed to be integrated into a wide range of collective protection systems, at sea or on land, to safeguard personnel and thereby guarantee operational capabilities.

### The Through Bulkhead Sampling System (TBSS)

Designed exclusively for Smiths Detection, TBSS provides a cost effective alternative to the original Through Bulkhead Unit (TBU) in supplying air samples to the GID-2A™

Located through the ship's bulkhead, the footprint of the TBSS has been reduced by the use of a concentric exhaust and inlet design allowing greater mounting flexibility. Air is sucked in through an outer external inlet, passed across the GID-2A™ sampling nozzle and ejected through a central exhaust duct. This principle ensures that the exhaust air is projected at a sufficient distance away from the inlet stream and because inlet pressure is always greater than the outlet pressure, ensures that the correct airflow is achieved at all times.

The TBSS has been designed to comply with EMC, EMI and EMP requirements as well as withstand salt spray, mist, fog, dust and high humidity. The condition of the fan, used to draw the air into the unit, is continuously monitored to indicate the satisfactory operation of the unit.

Working in partnership with Smiths Detection and as an extension of their engineering resource, PJB have provided their expertise for the design of the TBSS and AAM products (see overleaf)

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The new unit is ...  
more economical to produce ...  
easier to install ... more efficient.

