

1500

OMNICOMM LLS

ARE INSTALLED IN

PETROLEUM TANKERS

PERFORMANCE IN EXTREME

CONDITIONS



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OMN*i*COMM
fuel consumption control
for fleet management systems

ISAF – International Security Assistance Force – is NATO-led international military contingent operating in Afghanistan since 2001. It was initiated to help the Afghan Authorities strengthen the institutions required to fully establish good governance and rule of law promoting human rights. The main role of ISAF is to assist the Afghan government in the establishment of a secure and stable environment. ISAF forces conduct security and stability operations throughout the country together with the Afghan National Security Forces.



ORBCOMM is a leading provider of global machine-to-machine (M2M) solutions and the only commercial satellite network which is 100% dedicated to M2M. Among Orbcomm clients there are such giants as Caterpillar Inc., Doosan Infracore America, Hitachi, Hyundai, Volvo and similar international brands.



NATO SECURITY ASSISTANCE TRANSPORTATION UNDER OMNICOMM CONTROL

A key goal for any government is to maximize its defensive posture. One critical aspect of that effort is the effective delivery and provisioning of fuel in military zones.

COOPERATION WITH OMNICOMM

For example, in Afghanistan, a main objective set by the United States military was the prevention of fuel theft by local civilian drivers who had been contracted by the military to deliver fuel. Despite the fact that transportation of fuel was carried out using a proprietary military

fleet, petroleum tanker drivers were hired from amongst the local population. Hiring local personnel was also necessary because of the inherent danger of the work involved: attacks on fuel convoys were not uncommon. The resulting theft of fuel tankers by these attackers, and the occasional explosion of such stolen fuel tankers, caused significant disruption to military fuel delivery schedules.

After a thorough examination of several large companies, the United States military's Defense Logistics Agency (DLA) chose the GlobalTrak solution by Orbcomm; this chosen

solution was fitted with Omnicomm fuel level sensors LLS 20230. This particular model of fuel level sensor was chosen to be integrated in Orbcomm GlobalTrak transport monitoring solution due to the reliable explosion-proof characteristics and the high level of accuracy in harsh environments involving fluctuations of temperature and atmospheric pressure, high resistance to vibration loads and dust.

"We see an ever growing market demand for solutions in the field of transport monitoring and fuel consumption control in such regions as Africa, Latin America and the Middle East, where fuel theft is a very common practice. We hope that our solution will be a major deterrent in this issue in the military and commercial areas around the world and will significantly improve the efficiency of fuel carriers", – said Marc Eisenberg Chief Executive Officer, ORBCOMM Inc.

It is exactly the explosion proof characteristics that were the main requirement to fuel monitoring equipment on behalf of ISAF.

1500 explosion proof fuel level sensors Omnicomm LLS 20230 were set on petroleum tankers of NATO International Security Assistance Force (ISAF) in Afghanistan.





1500 EXPLOSION PROOF OMNICOMM LLS 20230 INSTALLED IN NATO INTERNATIONAL ASSISTANCE FORCE (ISAF) FUEL TANKERS IN AFGHANISTAN

Now the system shows in real time the location of transport, the fuel level and the security status of petroleum tankers using mobile and satellite connection. In cases of sudden operational disorder of a vehicle, an alarm signal, or a sudden change of fuel level, the sensor sends urgent information to the dispatcher indicating the exact location of the vehicle.

Omnicom fuel level monitoring system shows accurate and precise results in various difficult climatic conditions with sizable temperature and atmospheric pressure fluctuations.

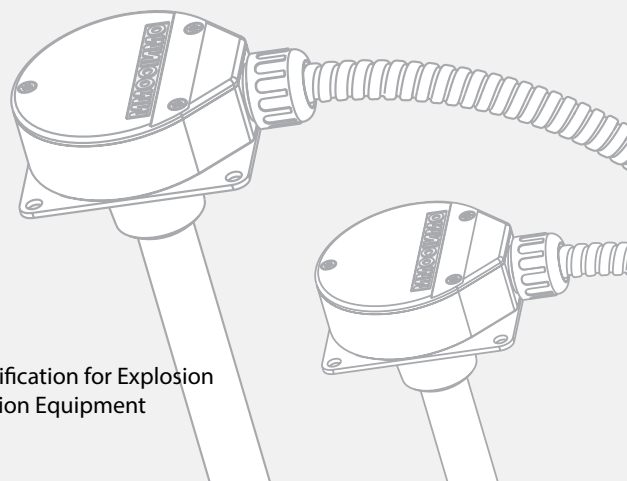
SPECIFICS OF THE PROJECT

The project was not an ordinary one for Omnicomm since interaction with the client was not direct. Omnicomm installed its fuel level sensors as part of a joint project with Defense Logistics Agency (DLA) and Orbcomm to equip ISAF logistics units with transport control systems. All works were conducted together with Omnicomm's American partner, Orbcomm. This experience proved to be a success in terms of Omnicomm equipment integration into another fleet management system.

OMNICOMM LLS

Over 500,000 Omnicomm sensors have been sold in over 100 countries worldwide. 146,000 items were sold in 2013. Only 2 % of warranty cases occurred from 2003 to 2013.

Omnicom LLS sensors are designed to work all around the world, from the North Pole to equator, in all climate and weather conditions (99% accuracy in temperature range from -60° to +80°C). Omnicomm LLS digital fuel level sensors have two interfaces that can be connected to two terminals.



EX Certification for Explosion Protection Equipment



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