

Timer's Hold More Than Time Accountable.

Even with the most secure prison facilities in today's modern era, no one would speculate that escaping layers of concrete, steel doors, armed guards, and barbed wire would be humanly possible. But a facility filled with prisoners who have nothing but time on their hands often creates escape situations. Time is the most regulated activity in prison. Schedules are followed to minute, and prison guards are also held to this rigorous schedule especially in overseeing an exact number of prisoners they are responsible for. Gizmo Engineering has a product that ensures that prison regulations are met. Our Guard Timers remind prison guards to check certain locations continually. The timers work by requiring the button to be pressed regularly before the set time. If the button is not pressed before this time, a very loud 103 dB warbling alarm and bright beacon light will sound. An important feature is the tamperproof circuitry which ensures the button cannot be forced in place, or an alarm sounds. Our timers are a piece of this accountability as federal and military institutions trust our timers reliability.



- Colby J. O'Brien

Monthly Focus

IBC TANK HIGH LEVEL ALARM

The IBC Tank Alarm High Level is primarily used to prevent overfilling. This alarm is a must for safeguarding facilities from spillage and hefty clean up costs. The device is easy to install and battery powered or AC powered if required. No wires means no electricians needed. Included is a lithium battery scheduled to last up to ten years.

When the liquid level in the IBC Tank does reach a high level, the alarm emits a very loud 103dB warbling sound, & flashing LED beacon light becomes activated.

The depth of the IBC Alarm is easily adjusted by simply loosen the thumb screw to slide the pipe to correct depth desired. Standard maximum depth is 10" which can be adjusted to as little as 2" if required. Because the liquid pipe and the alarm are integrated into the same unit, the level alarm is always on duty.

With a weatherproof enclosure rated NEMA 4X (IP65) and high visibility beacon LED, the alarm can be seen across large facilities surviving harsh conditions through the changing seasons.



IHK-PP-10 WITH CAM-LOCK & VENT



Our Alarms feature the worlds only float switch that is protected inside a pipe. This feature protects the level float ensuring that it cannot be damaged. Included is a screw-on float guard which allows inspection and cleaning of the float. An optional screened float guard that keeps solids, debris or insects out so they cannot foul the float is also available.

Never overfill a IBC tank again!

Temperature Alarm

Monitoring the temperature of liquid chemicals is not something commonly done, but for a ship voyaging in the arctic, it becomes necessary.

Marine Exhaust Solutions Inc. (MES) specializes in managing engine rooms for marine vessels, including the treatment of the exhaust fumes. Sodium hydroxide and D.E.F. solutions used to treat engine exhaust are stored in IBC tote tanks. If the temperature in the engine room drops low enough during arctic voyages, the sodium hydroxide will crystallize and consequently the dosing of chemical will stop.

To address this, an alarm was needed that would sound if either the temperature dropped, or if the liquid level ran low. Space is precious on a ship, so the unit had to be compact. It made sense to combine the instrumentation to save space, cost, and complexity.

An additional challenge was dealing with the near-zero headroom above the IBC tanks. After considering several proposals from Gizmo Engineering, MES settled on a solution where the alarm and suction pipe extended only 25mm above the top of the IBC lid. The key to this unconventional approach was to locate the stabilizing drum plug underneath the lid. This meant locating the electronics in a wall-mounted panel box, connected to the IBC probes by communications cable. The panel box contained the temperature display, a temperature alarm, and a liquid level alarm. Each alarm is indicated by a separate beacon light. After one year in service, the equipment has been performing without incident.



- Peter Blokhuis

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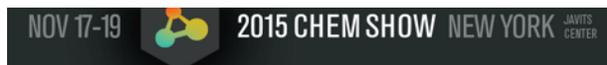


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