**Low Voltage Products**  
Providing failsafe dairy automation solutions for the irrigation industry

**Background**
Unlike twenty years ago, effluent and irrigation is now highly regulated. Resource consent requirements are stringently enforced with substantial fines issued for non-compliance.

Local councils are actively reviewing “best practices” with the goal of achieving effluent and irrigation systems that are effective and environmentally sustainable.

**The Gator Buddy system**
ABB’s low voltage products are used in the Gator Buddy, a robust and reliable effluent pump controller developed by Invercargill-based Attitude Switchboards, manufacturer of switchboards and control panels.

The Gator Buddy is simple to use and maintain. It can also be adapted to several other farm applications using the same basic platform. This eliminates the need for the farm manager to store large quantities of spare parts.

Typical installation of the Gator Buddy control panel is often at the pond or in the dairy shed, creating the need for an IP-rated enclosure that can withstand the harsh New Zealand weather and protect the control gear.

This is achieved by using ABB’s Gemini enclosure with a transparent door. By using a transparent door, visual inspection of the equipment is possible without opening the door of the enclosure. This minimizes the risk of seals and gaskets being “pinched” and avoids water getting inside the enclosure and damaging the control gear. The IP66 rating is complied with, by using ABB’s IP-rated industrial plug & socket combination.

“We have a strong working relationship with ABB’s low voltage products, and more than 90 percent of the switchgear installed in control panels is supplied by ABB”, says Phil Finnie, Attitude Switchboards Managing Director.

“Innovative dairy shed automation greatly improves dairy farm efficiency by reducing staff labour time and there’s absolutely no reason why farmers should be having effluent discharge problems if they have a Gator Buddy installed”.

“ABB’s Gemini enclosures and industrial plugs and sockets are IP-rated, which makes them perfect for the Gator Buddy”
A typical solution
A typical 15 kW pump 4 kW Stirrer system would include the following ABB low voltage products:
- Gemini (size 3) enclosure, with transparent door, including internal panels
- Compact range of selector switches and push buttons
- Fitted industrial plugs and sockets
- Unifix busbar system
- Main switch, OT63 door mounted, with external handle
- Manual motor starter MS132
- MCB, with auxiliary contacts
- PSR 30 soft starter, with UA16 contactor for capacitor control

ABB’s low voltage products include:

Industrial plugs and sockets
ABB Industrial Plugs and Sockets have the solution for products in industrial environments with high demands on safety, durability, reliability and cost savings for the end user.

Key benefits:
- **Safety**: tested and approved by third party laboratories
- **Durability**: materials used are highly durable and suitable for tough conditions and environments
- **Reliability**: high quality contacts ensure reliability
- **Cost savings**: designed for quick and easy installation

Pilot devices – Compact range
The Compact range of pilot devices are cost efficient, easy-to-use and reliable.

Features:
- Pushbuttons, non-illuminated
- Emergency stop pushbuttons, non-illuminated, twist, pull or key release
- Machine stop pushbuttons, non-illuminated, twist, pull or key release
- Selector switches, non-illuminated, 2 or 3 position

For more information please contact:

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