LOADPlus™ U CONTROLLER

AUSTRALIA PACIFIC ASIA
The LOADPlus™ U Controller is the next generation in process control and information management for underground delivery systems. It is a control interface, process controller and data logger in a single compact modular package.

**ACCURATE RELIABLE CONTROL**

The LOADPlus™ U Controller has been specifically designed for the underground environment with many special design features to ensure service reliability and flexibility. The LOADPlus™ U Control System, when coupled with one of Orica’s proprietary underground bulk emulsion delivery systems, provides the user with renewed visibility and control of the blasthole loading process, along with the capability to capture and review actual blasthole loading data on a hole by hole basis via the LOADPlus™ U reporting tool. The LOADPlus™ U Controller will manage the charging process across most typical underground applications. The design of the user interface provides more information and improved control over the charging process than previously available. It also has additional features such as a built in training simulator and fault diagnosis for the controller and Maxiloader™ system. The LOADPlus™ U Controller will enable the operator to deliver product more efficiently, and with improved accuracy and safety.

**STANDARD FEATURES AND FUNCTIONALITY**

**Operator interface**
- Controller interface allowing remote selection of Production or Development charging selection manages appropriate pumping speed
- Selectable charge in kilograms or metres, preselect charge quantity
- Selection of product type
- System water flushing

**HMI graphical display showing**
- Date and time
- Indicative Charge column position
- Current and cumulative charge quantity
- Measured hose depth and Indicative gap during charging
- Delivery rate and pressure

**Data acquisition and export function via USB (where applicable) generates a report via the Blast Reporting Tool showing**
- Individual hole ID and quantity loaded
- Time and date of loading
- Delivery rate
- Loading versus flushing activities
- System calibration history.

---

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Description</th>
<th>IFM Human-Machine Interface</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Key pad</strong></td>
<td>CAN Bus 15 button backlit with indication LEDs</td>
</tr>
<tr>
<td><strong>Screen</strong></td>
<td>7” High resolution colour screen with replaceable silicone screen shield</td>
</tr>
<tr>
<td><strong>Case</strong></td>
<td>Custom designed IP67 rated aluminium alloy with ABS protective hood</td>
</tr>
<tr>
<td><strong>Connections</strong></td>
<td>Zinc-Cobalt Mil-Spec cannon plug, 316 stainless M12 USB and Ethernet</td>
</tr>
<tr>
<td><strong>Dimensions (L x W x H)</strong></td>
<td>400 x 330 x 140 mm</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>7 kgs</td>
</tr>
<tr>
<td><strong>Operating voltage</strong></td>
<td>10 – 32 VDC electronically protected</td>
</tr>
<tr>
<td><strong>Features</strong></td>
<td>CAN Bus communications, USB software updates, -30 to 65°C continuous operating range, adaptable mounting system, USB data download</td>
</tr>
<tr>
<td><strong>Options</strong></td>
<td>Wireless remote controls, Maxiloader™, Miniloader™</td>
</tr>
</tbody>
</table>

**KEY BENEFITS**

- **Safety** – The ergonomic design of the user interface provides clarity and positive feedback to the operator, this coupled with improved process automation provides greater control, consistency and safety
- **Reliability** – The LOADPlus™ U Control System has been designed with case and components carefully selected to survive in the underground environment
- **Productivity** – The design features of the keyboard coupled with clear uncluttered user screens provides the operator with only the information he needs which reduces training time for new operators and improves charging productivity of experienced operators
- **Design flexibility** – The scalable and modular design of the control system allows easier expansion of functions and wider application range. The same hardware is used over several service levels and delivery systems.
- **Global design** – The interface can be quickly and easily changed to display international languages and units. Replacement parts and service is available internationally.

For more information visit orica.com or contact your local Orica representative.