

INTRODUCING THE NEW RESIDENTIAL  
TOTAL DISCONNECT/RECONNECT SYSTEM



POWER & UTILITIES

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## THE NEW TOTAL DISCONNECT/RECONNECT SYSTEM

- > Fits existing meter installations
- > No investment in communications infrastructure
- > Improves bottom line performance

BLP X-Pulse™ provides Utilities with a powerful revenue collection tool which reduces operational costs. X-Pulse is a dedicated remote residential disconnect/reconnect control system that combines the proven performance and safety features of BLP's 'wholehouse' disconnect switch with flexible communication options.

The financial advantages of remote service disconnect/reconnect are straightforward and can now be cost effectively implemented through the deployment of BLP X-Pulse.

Communication options include a FLEX® based system operating on the commercial pager network. With this option there is no expensive communication system to build or maintain thus allowing the utility to deploy the system rapidly & cost effectively for both small and large scale installations.

Alternatively, X-Pulse can be configured to operate from a hand held controller. This 'walk-by' system allows meter readers, or other utility personnel, to disconnect and reconnect a supply without having to remove the meter.

Installation of X-Pulse is made simple with its 'Plug and Play' design. The complete system is housed in a UL414 approved meter adaptor, mounted between the meter and meter socket (either ring or ringless). Once inserted there are no control wires to run or connect.

Each unit has a unique ID allowing for secure control of each individual X-Pulse device. Commissioning of the unit is carried out over the air using the control software installed at a Utility's facility - the system is then ready to use.

BLP's high performance S36 PowerPulse™ latching relay technology is employed to perform the disconnect. The S36 is rated and fully tested for over 6000 operations at full load (200 Amps) and its safety performance has been independently verified.

As well as the residential disconnect/reconnect, the same core solution can be readily configured for other applications such as load management.

### Financial Benefits

- > Eliminates disconnect and reconnect costs
- > Disconnection can be made immediately preventing any further debt escalations
- > Cost effective for small and large deployments

### Operational Advantages

- > Simple 'Plug-in' installation
- > Keeps employees out of harms way
- > Operates from a desktop PC
- > System can be installed and running in a few hours



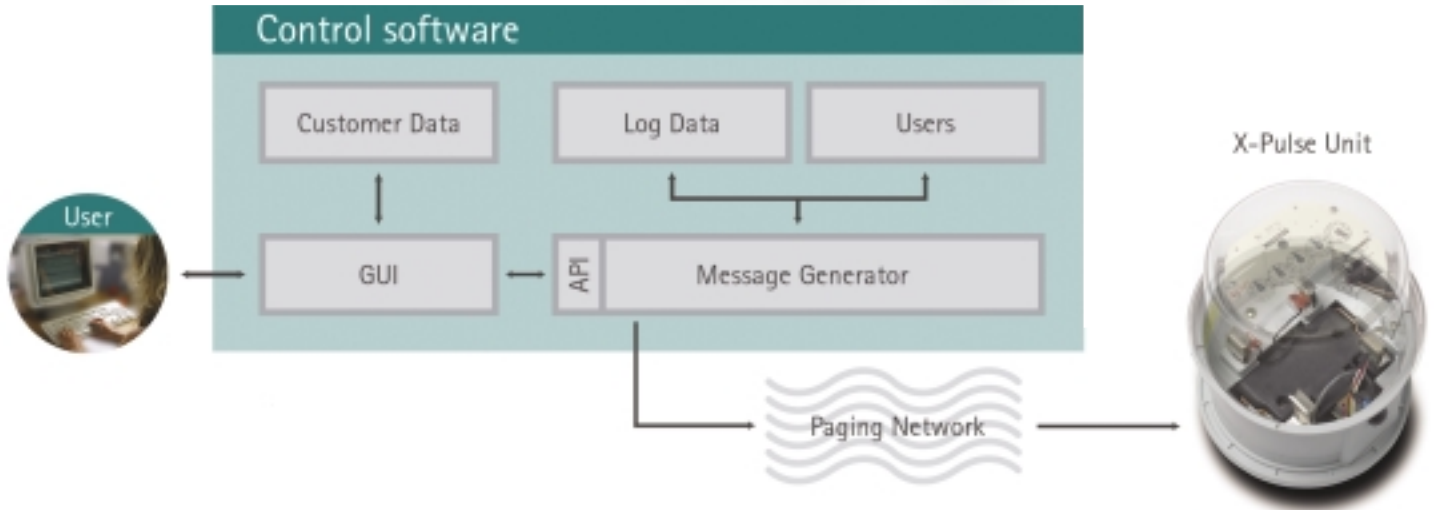
UTILITY HEAD OFFICE  
REMOTE CONTROL

# REMOTE CONTROL





# SYSTEM OVERVIEW



## Control Software

Using the X-Pulse control software, a Utility can individually contact any of the field units and perform a disconnection or reconnection, remotely. The software contains a customer database which holds details of all the field units including their location and switch status.

The control software operates on a standalone PC and is able to import existing customer records on to its database using a csv file.



## X-Pulse Paging

The X-Pulse Paging Receiver is a one-way communications device that uses existing commercial networks with the FLEX® protocol. The network is the widest deployed paging system in the world with over 200 million subscribers.

X-Pulse has been designed as a reliable secure communications medium. The FLEX® code includes forward error correction, with a checksum incorporated in the message structure, making it impossible for incorrect characters to be decoded. As such, any invalid message will be ignored by the X-Pulse field device.

## Local Reset

Following a disconnection, there are a number of options that can be programmed into the X-Pulse control module for resetting the disconnect relay.

Reconnection can be achieved with no customer intervention by sending a reset signal over the pager network or the control module can be 'armed' remotely with the final reset being achieved by the customer pressing a local 'push button'.

## PowerPulse Latching Relays

The BLP X-Pulse system uses BLP PowerPulse latching relays for final load control. The devices are pulse operated ensuring that the system maintains its status during any power interruptions. The devices incorporate BLP's patented 'blow-on' technology, delivering unrivalled fault current performance. Reliability and quality of the product has been proven with over 2.5 million units currently in service.





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