Challis Ag+ WSM

Water Management System

Challis Ag+ WMS Executive Summary

The Challis Ag+ WMS is a new, top-of-the-range, modular and electronic Intelligent technical building water monitoring and control system that can connect control and monitor a whole range of water outlets including shower, taps, urinals all of which can be liked to a network reporting back to a central hub. This link can be by LAN, wireless or by our new secure radio system LPWAN (Low Power Wide Area Network) with a range of over 12 miles and which is not disrupted by internal walls and obstacles that often hamper wireless communication

Proven shower taps, as well as wash basin taps and urinal flush valves from the Challis Ag+ range, can all be linked to individual networks then on to a central hub.

The Challis Ag+ WMS system enables the centralised control of an unlimited number of taps and devices within a range of up to 12 miles.

Using the tablet included in the standard delivery, it is possible to change settings, call up status information, activate individual and group functions, flush individual or groups of units and access recorded data. Reports are saved in PDF format and can be printed and sent easily. The Challis Ag+ WSM system is a unique package that will dramatically reduce maintenance time and costs whilst at the same time provide un paralleled levels of reporting, monitoring, auditing and control of all your water outlets.
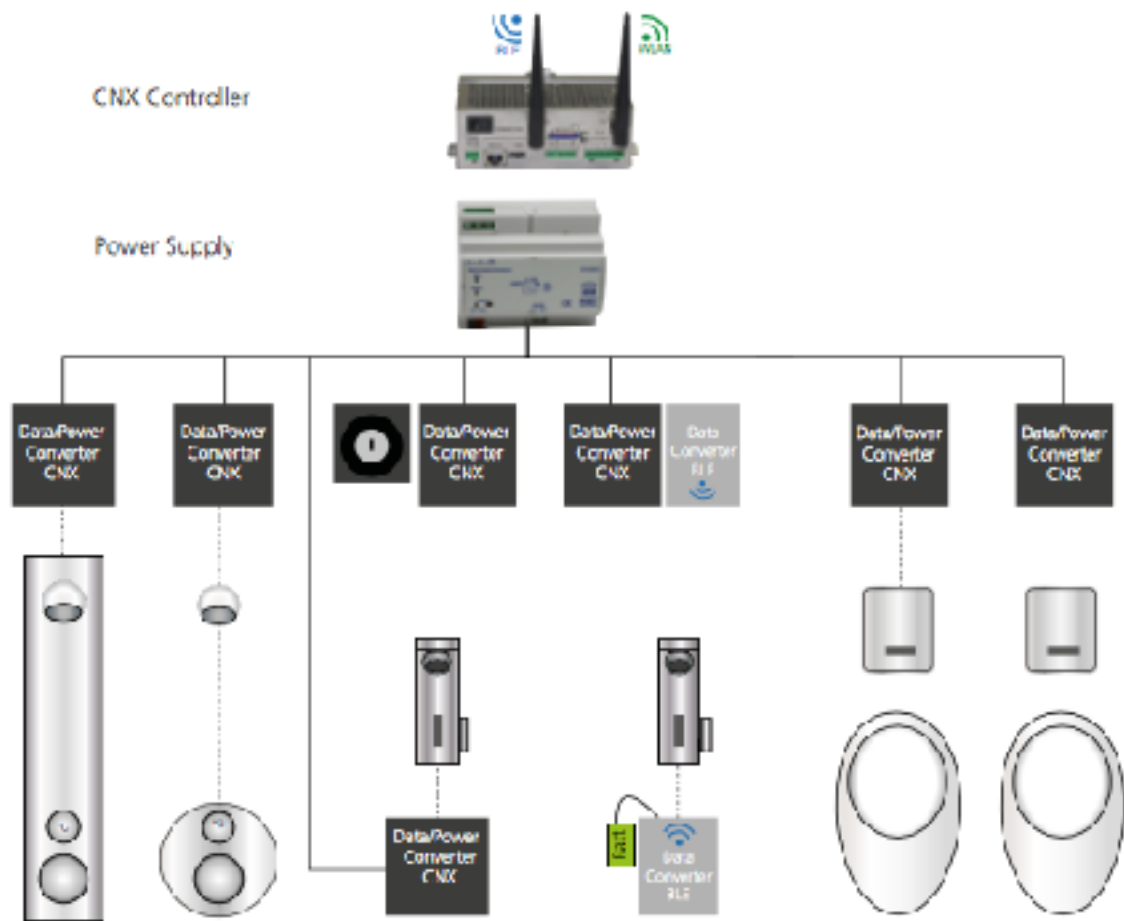
Wireless Water Management

The web server integrated into the WMS controller provides a user friendly overview of all networked taps in the building. Taps that have been linked to the network can be located and controlled via a WLAN connected tablet or laptop, either individually or in groups. The tap operating status, forthcoming action and notifications are all clearly visible on the display.

When online, each tap receives updates automatically; when offline, updates can be implemented via tablet, for example. All internet- enabled devices can be operated via web browser, regardless of the operating system installed.

Challis Ag+ Water Management System Applications

Especially suitable for buildings that require drinking water installations offering high functionality and levels of hygiene, such as
• swimming pools
• schools and sports arenas
• army barracks
• hotels
• doctor's surgeries, hospitals, care and retirement homes

CNX Controller

Power Supply

Data/Power Converter CNX

Benefits of the Challis Ag+ Water Management System:

- Significant Reduction in Operating/Maintenance Costs
- Significant Reduction in Management Costs
- Centralised Monitoring of all Outlets
- Centralised Auditing of all Outlets
- Quick & Easy Fault identification and resolution
- Remote Flushing Capability
- Modular in its design and concept
- Suitable for small or large applications
- Individual controllers for up to 150 taps can be linked & networked to accommodate an unlimited number of outlets
- Integration of electronic taps from the Challis Ag+ range
- Stable, Secure & Reliable data transfer capability
- Generous network topology (up to 350 m) or 12 miles with secure radio connectivity
- Electrical installation – low cost, in a linear, star or tree layout
- Based on stable KNX technology
- Tablet included with intuitive, straightforward user interface
- Data transferred via LAN, WLAN (BLE Bluetooth Low Energy or LPWAN IoT Radio in development)
- Lifecycle Data Storage

•Supports & Ensures correct operation within the drinking water installation
•Reports in PDF format saved to SD card
•Protected against short circuit and reverse polarity
•No loss of data in the event of a power cut
•Easy integration and installation tailored individual requirements, user friendly to service
• drinking water installations in the commercial sector and administrative buildings
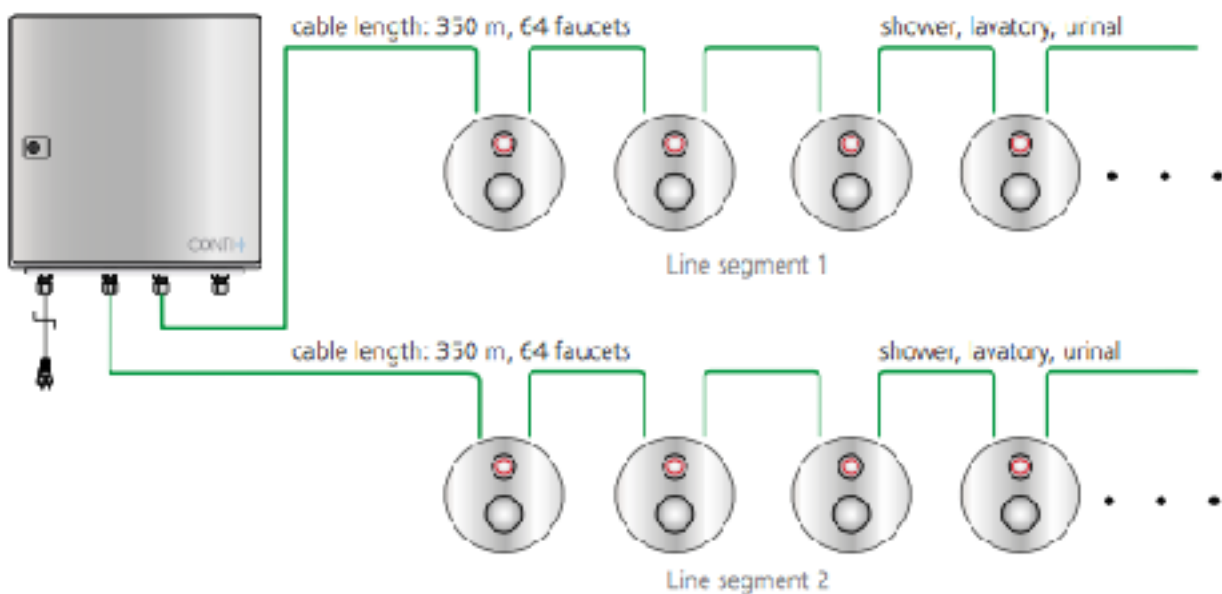•sanitary facilities with specific non-standard operating requirements

Simply Fast & Secure

Topology

The topology offers easy straight- forward tap networking: individually in a linear, star or tree layout. Neither terminators nor special bus cables are required. The standard cables, piped in empty conduits or flush mounted, are quickly connected to the waterproof single-wire terminals. Additional shielding of cable is not required.

What is undoubtedly essential, however, is that the correct temperature, water replacement and flow rate are provided and maintained. These interacting parameters are regarded as the ones which have the most significant effect on the hygiene quality of drinking water at a microbiological level, according to generally accepted engineering standards (including EN 806, DIN 1988-n00 and VDI/DVGW 6023). The Challis WSM system actively influences these parameters.

cable length: 350 m, 64 faucets   shower, lavatory, urinal

Line segment 1

cable length: 350 m, 64 faucets   shower, lavatory, urinal

Line segment 2

Automatic hygienic flushing

While hygiene is an important issue, centralised control is a must. The settings for flush duration, interval and water run-on time for every tap installed in the system can be set via a mobile device or PC thanks to the Challis Ag+ WSM system.

Thermal flushing

Safety is the buzzword for thermal flushing. As a result, the system only permits the thermal flushing procedure to be triggered at defined times that can be controlled via the tablet, in line with the technical standard DVGW Worksheet W 551. The complete process is monitored, recorded and can be printed.

Tap management

Devices can be added, reassigned within groups or moved thanks to a clearly structured menu. An overview of parameters set for each tap can be viewed on the tablet.

For Further Details:

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ISO 9001 REGISTERED FIRM

CHALLIS ANTIBACTERIAL

ISO 14001 REGISTERED FIRM