INTELLIGENT SERVICES, i-CONTROL
Reduce installation and cabling cost

DECENTRALIZED CONTROL
Conventional installation of waste and (waste)water treatment plants requires a centralized control panel and several cables to connect all the controls of the products and systems to the main control panel. Nijhuis has developed an intelligent decentralized control solution, i-CONTROL, to dramatically reduce installation and cabling cost.

The intelligent and cost-effective solution will combine local control panels with decentralized instrumentation control and M12 cabling. It is a pre-cabled and plug & play solution reducing the cabinet footprint.

The local control panel is combined with a IP67 decentral I/O system, including all the controls of the unit or system. The local control panel has an industrial ethernet and power supply connection and if required an emergency stop signal. All the panels are combined and connected to the main control panel, to create one intelligent network of panels.

APPLICATIONS
• New waste and (waste)water treatment plants.
• Upgrade and extension of plants.
• Modular and rental plants.

CUSTOMER BENEFITS
1. Reduce electrical installation cost.
2. Modular and flexible upgrade and extension possibilities.
3. Reduce production time, standardized panels.
4. Reduce field cabling cost, pre-cabled solution.
5. Reduce WWTP installation and start-up time.
7. Increased field information & diagnostic.
Explanation of the i-CONTROL solution

During the production of the units in the manufacturing shop, all the controls of the unit will be combined in one small panel, which will be mounted on the unit. The local control panel is combined with a IP67 decentral I/O system. In terms of cabling, the panel requires a 3-phase power supply cable, an industrial ethernet cable and, if applicable, an emergency stop cable.

After the delivery of the equipment, the M12 cabling will ensure that all types of cables can be connected in the local control panel during installation. All local control panels are connected to the main control panel by means of one combined industrial ethernet network. The main control panel has a touch screen and will read out all the data of the system.