

dmp corporation | the modular concept

**totally  
automatic  
control  
centers...**

**the modular  
concept**



**DMP  
CORPORATION**  
INDUSTRIAL WATER TREATMENT

# DMP Control Centers Provide Control and On-Line Support

## Automation

Before DMP, human operators had responsibility for controlling wastewater treatment systems. They were assisted by simple control panels containing relays and timers to control basic functions, but decisions were made by the operators themselves.

Then came tougher environmental standards, and with the new standards came the need to handle more control decisions than a human operator could possibly handle alone.

Thousands of decisions are required every day to control a wastewater treatment system. Many are routine; some are emergencies. If each decision is made quickly and correctly, discharge meets requirements. If not, violations can shut down a company or at the least, drastically increase operating costs.

Wastewater treatment must be automated – for the same reasons other, similar operations are automated:

- Standards must be met
- The operation is highly technical.
- You cannot find qualified operators.
- If you can find them, you cannot justify their cost.
- If you can justify their cost, you cannot keep them.
- If you can keep them, you still have to worry about training, absenteeism, vacations, turnovers, boredom and the like.

And finally, wastewater treatment can be automated – and so it should be.

## Support

But is automation enough?

With the advent of the global age in business, a new set of challenges began testing early wastewater treatment automation concepts. Companies began locating manufacturing plants not just miles apart, but countries – even continents – apart, so that simply communicating with automation systems became the first challenge.

At the same time physical distances were increasing, the amount of data and information needing to be shared between locations increased at an even greater rate, as computers began to enhance both manufacturing and treatment automation systems.

Seemingly overnight, the need for connectivity to transfer huge amounts of real time data between treatment systems and remote locations quickly arose.

If automation is the foundation for essential operator support in wastewater treatment – and it is – then connectivity is now the keystone for building the most effective and cost efficient treatment operation on that foundation.



# E-Controller Series

DMP's E-Controller Series Control Centers, pictured here, represents the latest developments in the control technology. Each E-Controller handles all necessary flows and reactions and continuously reports conditions.

## E-Controller/3

This is DMP's most basic control center. Utilizing programmable logic controllers with indicator/button interface, the E-Controller/3 offers full automation.

Upgrading is required to accommodate DMP's computer-enhanced productivity software options.

## E-Controller/5

The operator-friendly E-Controller/5 offers an advanced, computer based operator interface that allows operators to control all system operations, review system status and react to any alarm status with the touch of a key.

With easy-to-follow computer menus, available in English or Spanish (other languages on request), the E-Controller/5 guides operators to perform all functions, including actions necessary to react to alarms for incorrect treatment, chemical overload and equipment malfunctions. The E-Controller/5 can accommodate ESCO and can be upgraded to handle all DMP productivity software enhancements.

## ESCO™

ESCO is an electronic communications system which allows DMP experts to monitor any wastewater treatment system via phone lines. ESCO utilizes the latest Internet and intranet networking protocol to link DMP experts with control centers worldwide. ESCO eliminates on site service calls, saving the cost of unnecessary personal visits.

With ESCO, a team of DMP service technicians, chemists and engineers is on call during all business hours (Eastern Standard Time, USA). Standby service can also be arranged 24/7/365.

ESCO enhancements extend the benefits of ESCO to provide a host of management tools for treatment system owner/managers.



E-Controller/5



E-Controller/10

## E-Controller/10

Based on advanced computer workstation technology, DMP's E-Controller/10 incorporates all of the functionality of the E-Controller 5, plus much more.

Displaying presentation-quality full color graphic diagrams of the complete treatment system, the E-Controller/10 provides real time information in a usable, digestible form; instead of words and numbers, operators see recognizable graphics of tanks and pumps.

E-Controller/10 offers the most complete integration of system control, information display, and built-in capability for productivity software enhancements.

## ESCO/NET™

DMP's ESCO/Net provides monthly operating reports and enables remote monitoring. These reports can be e-mailed to one or more managers and can be used in numerous ways to control costs and manage operations. ESCO/Net also allows customers to monitor their DMP Control Centers the same way DMP's technicians do with ESCO.

## ESCO/VIEW™

Used exclusively with the E-Controller/10 Control Center, DMP's ESCO/View allows hardwired remote monitoring and retrieval of selected operating information from the Control Center. The historical information retrieved with ESCO/View enables managers and analysts to study a myriad of events and trends.

## ESCO/WEB™

The same historical operating information available with a hardwired ESCO/View monitor is also available via the World Wide Web (WWW), except in text format only with ESCO/Web.



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