

# Modicon<sup>®</sup> M340<sup>™</sup> and Ethernet

The winning association for  
your automation solution

Make the most of your energy<sup>SM</sup>

**Schneider**  
Electric

# The Modicon M340 and Ethernet, your solution for modular applications...

## Simple, economical and universal

Ethernet TCP/IP is a fast and upgradable universal communication standard, with services adapted to industrial automation systems. The many possibilities of Modbus® on Ethernet TCP/IP messaging and the reliability of exchanges enable creation of modular architectures with management of the equipment at the heart of the automated system.

The capabilities of Ethernet architectures enable connection of a wide range of equipment, such as supervisors, programmable controllers, distributed local processing modules and remote inputs/outputs. Ethernet is particularly designed for production of modular machines with distributed control and for infrastructure applications.

## Application types

### > Industry

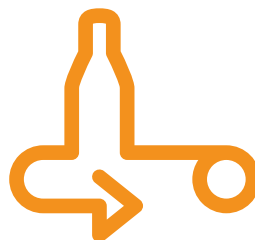
- Medium-size packaging machines
- Modular machines
- Assembly machines
- Assembly lines
- Warehouse small sorting machines

### > Infrastructures

- Water treatment
- Drinking water distribution
- Wastewater treatment
- Pumps
- Petroleum and gas distribution
- Medium voltage electrical distribution

### > Buildings/services

- Electrical distribution
- Sorting systems
- Buildings intelligent automation systems



Assembly machines



Packaging



Water treatment



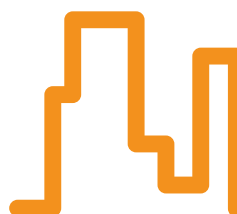
Machines



Petroleum and gas



Electrical distribution



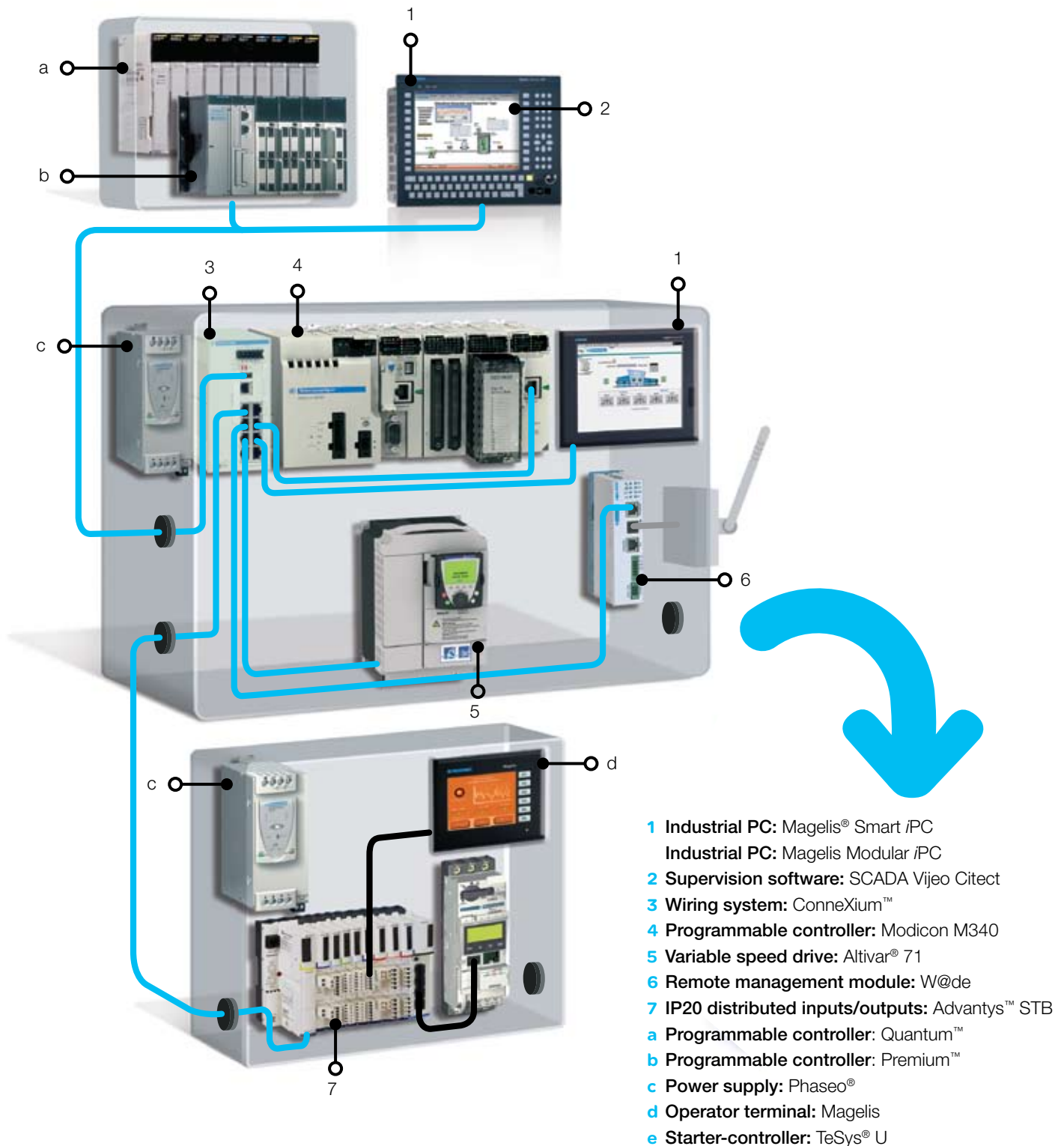
Buildings intelligent automation systems



Drinking water



# Ethernet, the universal communication standard



- 1** Magelis Smart/Modular iPC industrial PCs
  - Magelis Smart iPC with 12" or 15" color screen as light client for access to equipment-embedded servers
  - Magelis Compact and Modular iPC as host station for upgradable supervision, highly adaptable to application requirements and with simplified maintenance
  
- 2** Vijeo Citect SCADA software
  - All-in-one supervision software for extended and complex installations with redundancy capability
  - Dynamic link between Unity™ Pro and Vijeo Citect for data management Unity Pro and equipment configuration screens on bus
  
- 3** ConneXium Ethernet infrastructure
  - Connection-ready ConneXium wiring system with switches, hubs and transceivers for 10/100BASE-TX networks
  
- 4** Modicon M340 programmable controller
  - Compactness: digital modules 16 to 64 inputs/outputs; mixed module 16 inputs and 16 outputs
  - Compactness and flexibility: processors with two integrated ports for CANopen, Ethernet or Modbus
  - Functions: multifunction fast counting, low-level and multi-range analog modules
  - Two Ethernet communication ports per programmable controller
  - Ethernet services: Modbus on TCP/IP messaging, Global data, input/output scanner
  - Remote access via Ethernet: web server embedded in programmable controller; user web pages
  
- 5** Altivar motion control
  - Altivar 71 variable speed drives for asynchronous motors up to 500kW
  - Altivar 61 variable speed drives for pump and fan control motors up to 630kW
  
- 6** W315/320/330 W@de remote management module
  - Data measurement, recording, processing and archiving
  - Communication between sites and supervisor or web server
  - Operator direct warnings
  - DNP3 and RTU protocol management (IEC 8705-101/104)
  
- 7** Distributed input/outputs
  - Advantys STB and OTB modular inputs/outputs
  - Wide range of digital and analog interface modules
  - Fast counting
  - Tego Power and TeSys specialized motor starter connection modules



From your PC connected to Ethernet, you directly access stored data via FTP services. So you make use of files in the desired application format. A simple copy/paste and the file is on your PC.



The Modicon M340 has what it takes to meet the demanding requirements of machine designers and plant engineers when it comes to size, performance, flexibility and compatibility.

# Advantages



## Modicon M340 and Premium/Quantum Advantages

- **Easy installation of communication between programmable controllers** – Automatic global data exchange.
- **Installation upgradability** – Programmable controller easily added to a configuration.

## Modicon M340 and Ethernet input/output Advantages

- **Long-distance peripherals distribution** – Ethernet input/output accepts up to 128 distributed units over several kilometers.
- **Complete catalog of equipment to meet installation demands** – Extensive range of STB, OTB modular input/output modules, Altivar 61/71 variable speed drives, Ositrack identification systems and many other Schneider Electric products.
- **Centralized configuration management for simplified maintenance** – A device replaced in the configuration automatically recovers its parameters without intervention from server.



## Modicon M340 and ConneXium Advantages

- **A complete wiring system for all IP20 and IP67 infrastructure types** – Association of hubs, switches and transceivers using prefabricated cables enables installation of varied star, delta and ring architectures.

## Modicon M340 and W@de Advantages

- **Efficiency of monitoring and control remote maintenance** – The module time stamps and stores installation events and can automatically call a monitoring station.

## Modicon M340 and Compact Magelis Smart iPC Advantages

- **Real time programmable controller information on Magelis** – The programmable controller provides predefined web pages and the user can customize pages for installation operation and maintenance.



## Modicon M340 and Vijeo Citect/Magelis Modular iPC Advantages

- **Solution configuration productivity** – Data entered in either Unity Pro or the supervisor is automatically updated in the other software.





## Talk to someone you can trust

When we introduced the first programmable controller, we were responding to the needs of our customers for better, more effective machine control. More than 40 years later, we continue to listen and work with you to pioneer innovative new ways of delivering value, efficiency and performance.

This commitment has earned us a reputation for dependability, innovation and reliability that is the defining characteristic of Schneider Electric team members from around the world. This includes product specialists, industry experts, distributors, partners and the countless other members of the Schneider Electric family. Each is tasked with continuing our mission to help you make the most of your energy.

Safety & security. reliability & productivity.

Aesthetics & comfort. efficiency & sustainability.

Whatever your need, Schneider Electric has the solution. Contact your local sales representative today to learn how Schneider Electric can improve operational performance and help your business to achieve a competitive advantage.

To find genuine Schneider Electric brand PLCs, go to [www.us.Schneider-Electric.com/PLC](http://www.us.Schneider-Electric.com/PLC).

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