

Distributed inputs/outputs, IP20

Advantys OTB

Simply optimum!



Advantys OTB



Simply Smart!

Leveraging
ingenuity
and intelligence
for **ease of use**

Designed for simple and compact machines, the Advantys OTB solution is an **optimised** and **economical** IP20 distributed I/O system.

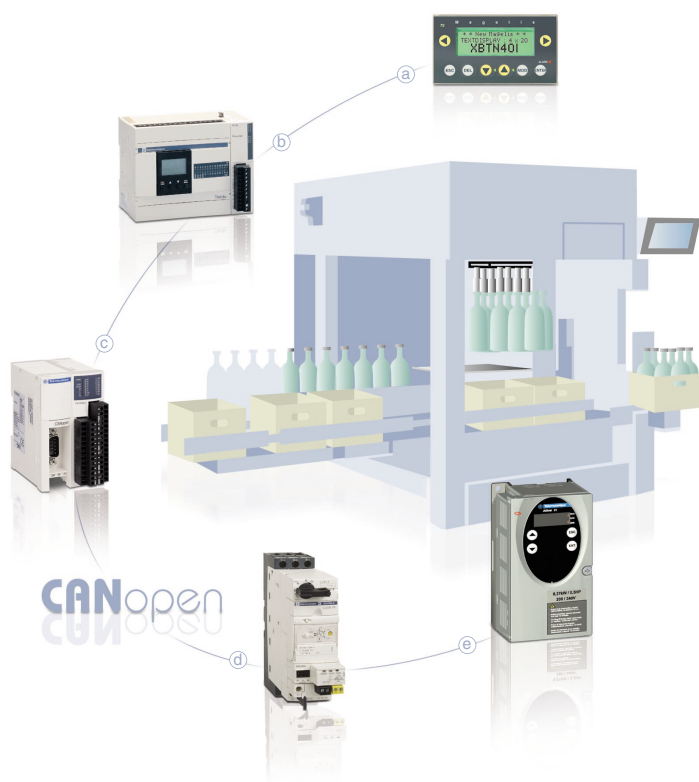
Reduce your cabling costs and at the same time increase the operational availability of your installation...

Open and modular, this solution enables the creation of separate groups of industrial I/Os, each positioned as near to the machine as possible, that are managed by a master controller (PLC, PC or variable speed drive) via a fieldbus or communication network.

Complete synergy for optimising your costs

The Advantys OTB solution integrates perfectly in **Twido** and **Modicon TSX Micro** automation platforms.

- (a) Magelis display units
- (b) Twido programmable controller
- (c) Advantys OTB distributed I/O
- (d) TeSys model U starter-controller
- (e) Altivar 31 variable speed drive



Simple...

... to select:

- a simplified range at an optimised cost: 3 communication base modules, each with 20 I/O directly integrated
- a range of I/O expansions that are common to Twido programmable controllers for minimising the number of references.

... to install:

- "ideal" compactness: 20 I/O within a width of 55 mm, including bus connection
- removable terminal block for sensor/actuator connections
- direct mounting on DIN rail
- simple clip-on assembly of I/O expansion modules on the base modules.

Modular and open...

- Using a range of I/O expansions, Advantys OTB offers a modularity that can be adapted to all your needs: 1 base module can be fitted with up to 7 discrete I/O (up to 132 I/O) or analogue (up to 48 channels) expansion modules.

- 3 communication base modules are available with connectivity to fieldbuses: CANopen, Modbus or Ethernet.



Advantys OTB interface modules

CANopen bus
OTB 1CO DM9LP

Ethernet TCP/IP network
OTB 1EO DM9LP

Modbus Series network
OTB 1SO DM9LP

Type of bus or network

Number of discrete I/Os	20 I/O
Number of inputs	12 inputs --- 24 V IEC type 1
Number of outputs	6 relay outputs and 2 solid-state --- 24 V outputs
Connection method	Removable terminal block
Dimension	W55 x P 70 x H 90 mm
Number of I/O expansion modules ⁽¹⁾	7 discrete or analogue input/output modules, or connection accessories
Maximum I/O configuration	With interface module base: 132 with screw terminal I/O expansion; 244 with HE10 connector I/O expansion; up to 48 analogue channels
Supply voltage	--- 24 V
Counting, 5 kHz	2 channels, 32 bits (0..4,294,967,296 points) - dedicated discrete inputs - up counting/down counting with preset
Counting, 20 kHz	2 channels, 32 bits (0..4,294,967,296 points) - dedicated discrete inputs/outputs - up/down counting, up counting, down counting, frequency meter
Pulse generator, 7 kHz	2 PWM function channels (output with pulse width modulation) or PLS function (pulse generator output)

Advantys OTB separate components

Commoning modules
OTB 9ZZ61JP

OTB9YZ61JP*

Documentation
OTB9CL01CD

Designation

Usage	For grouping input or output commons, max. 8 A		User guides for hardware & software
Positioning	Inter-module	Last expansion module	-

*Available 2nd quarter 2005

⁽¹⁾ For the references of discrete I/O and analogue expansion modules, refer to the Twido or Advantys OTB catalogue

Configuration example:

- 1 CANopen interface module (with 20 I/O integrated)
- + 4 discrete I/O expansion modules:
 - 16 x 24 V DC inputs
 - 16 relay outputs
 - 8 x 24 V DC inputs
 - 8 x 24 V DC transistor outputs
- + 1 analogue I/O expansion module:
 - 2 inputs / 1 output, 12 bits



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