Your peace of mind...

Twido
Programmable controllers
Need efficiency for your small automation systems?

Twido programmable controllers and TwidoSuite software provide simple and astute solutions for all your predicaments.

**Flexibility:**
The assurance of finding your optimised solution
- > 3 ranges: Twido Compact, Twido Modular and Twido Extreme
- > Self-configure your solution by simply adding the required I/O expansions (digital, analogue) and options to your base equipment.

**Openness:**
Easily communicate with your environment
- With its numerous integrated communication networks, or as a reasonably priced option, treat yourself to a high performance and economical communication solution.

**Simplicity:**
Be more efficient at all levels
- > With the TwidoSuite software, develop your projects with astonishing ease. Absolutely modern and unrivalled in clarity, TwidoSuite naturally adapts to your requirements...
- > Program and set-up your Twido controllers even in the most inaccessible places using the Bluetooth® wireless connection kit...
- > Extremely compact, Twido is easy to assemble and has a wide variety of connection options to save time and improve reliability.

Make the most of your energy
The assurance of finding your optimised solution

• Select your type of base

With its 16 base modules “Compact”, “Modular” and “Extreme”, Twido offers you multiple possibilities tailor-made solutions.

- **Twido Compact**
  - Simplicity, ease of use
  - “All in one” product
  - Screw terminal connection
  - 10 compact bases
  - 10, 16, 24 and 40 I/O
  - 24 VDC or 100...24 VAC supply
  - Modbus, CANopen, Ethernet (integrated on 40 I/O).

- **Twido Modular**
  - Compactness, flexibility
  - Very compact and expandable
  - Removable screw terminals or HE10 (pre-wired) connection
  - 5 bases, 20 or 40 I/O, expandable using 4 to 7 modules
  - 24 VDC supply
  - Modbus, CANopen, Ethernet.

- **Twido Extreme**
  - Robustness
  - IP67
  - Temperature -40°C to +110°C
  - 1 non expandable base, 41 I/O
  - Digital, Analogue or PWM
  - 12 or 24 VDC supply
  - Modbus, CANopen, CAN J1939 integrated.

• Adapt the Twido Compact and Modular bases to your applications!

- **I/O expansions**
  - Up to 32 I/O
  - Wide variety of connection options

- **2nd serial link**
  - Increase your communication alternatives.

- **Display**
  - Make adjustments directly on Twido.

- **Calendar timer**
  - For actions determined by time or date, or time stamping the occurrence of events.

- **Memory expansion**
  - Double the Twido program memory capacity.

• Select from a wide variety of digital I/Os

Optimise your costs! Self-configure your solution by simply adding the required I/O expansions to your base equipment.

- **Removable screw terminals**
  - Conventional cabling.

- **Spring terminals**
  - Quick cabling and secure clamping.

- **HE10 connector**
  - Pre-wired solution for quick and reliable connection.

• Help reduce your costs with the analogue I/Os

A varied and economical range due to an increase in the number of I/Os per module.

- **More measuring options** (temperature, pressure, flow, etc.)
  - 2 x K, J, T thermocouple inputs
  - 2 x 0...10 VDC, 4...20 mA inputs
  - 4 x 0...10 VDC, 0...20 mA or temperature inputs
  - 8 x PTC/NTC inputs
  - 8 x 0...10 VDC, 0...20 mA inputs
  - 8 temperature inputs (terminals)
  - 8 temperature inputs (RJ11)
  - 1 x 0...10 VDC, 4...20 mA output
  - 2 x +/-10 V outputs
  - 2 inputs, 1 output (0...10 VDC, 4...20 mA)
  - 2 thermocouple or temperature inputs.
  - 1 output (0...10 VDC, 4...20 mA)
  - 4 inputs, 2 outputs (0...10 VDC, 4...20 mA)

- **More regulation**
  - Up to 14 easily configurable PID loops using teach mode, with analogue or digital (PWM) output.
Easily communicate with your environment

With its numerous integrated communication networks, or as a reasonably priced option, treat yourself to a high performance and economical communication solution.

Need to exchange data simply?
Monitoring, operator dialogue, control...

> Locally using:
- The economical Modbus solution (integrated as standard)
- The high performance Ethernet solution Modbus/TCP on Ethernet 10/100 Mb
Make exchanges easily and quickly with your automation system equipment, such as graphic terminals, supervisors and programmable controllers, and simply modify our system.

> Remotely:
Monitor and control your installations using the modem solution and, consequently, avoid any unnecessary on-site visits for some of the maintenance operations.

Need to relocate the inputs/outputs easily?
With Modbus and CANopen, networks achieve both economy and performance:
- Savings in cabling,
- High data exchange transfer rate,
- Direct connection to industrial automation systems.

Need to pilot control equipment efficiently?
Variable speed drives...
- Opt for fast exchanges with CANopen.
The openness of CANopen also enables you to achieve high performance and efficient communication with multiple products.
- Opt for an economical solution with Modbus (integrated or 2nd serial link).
Be more efficient at all levels

More than just programming software, TwidoSuite is designed to assist you in developing your projects that are based around Twido Compact, Modular and Extreme controllers.

Never has programming been so simple!

Easily program your Twido controllers

- With the new TwidoSuite software, develop your projects with astonishing ease. Task orientated, resolutely modern, unrivalled in clarity, TwidoSuite naturally adapts to your requirements... for making implementation more user-friendly, quicker and therefore, more efficient.
- From anywhere, at any time, using Modbus, Ethernet, a modem...

Save valuable time

- In connected mode: directly modify online your program in the PLC.
- Simplify exchanges with your equipment using the macros!
To make your programming easier, a system of macros for Modbus serial link and CANopen bus simplify program writing and improves understanding of the code.

Gain freedom of movement, with no cabling

Easily connect thanks the Bluetooth® wireless connection.

Even in the most inaccessible places, by using the Bluetooth® gateway. An ideal solution for the setting-up phase, the Bluetooth® wireless connection provides all the benefits of freedom of movement within a 10 m radius of the Twido controller.

Make your life easier!

More compact enclosures

Very small, Twido can be installed anywhere: imagine 1 complete controller with 40 I/O that fits in the palm of your hand!

Ultra-fast assembly

You need to add expansions or options? Screwdrivers or additional cables no longer needed: a few clicks and assembly is achieved.

TwidoSuite assures worry free continuity of your applications previously created using TwidoSoft.
<table>
<thead>
<tr>
<th>Type of base</th>
<th>Number of digital I/O</th>
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### Number of digital inputs (24 VDC)

- 6 sink/source
- 9 sink/source
- 14 sink/source
- 24 sink/source

### Number of digital outputs

- 6 relay 2 A
- 7 relay 2 A
- 10 relay 2 A
- 14 relay 2 A, 2 solid-state 1 A

### Type of connection

- Screw terminals (non-removable)
- Spring terminals
- HE10 connectors

### Possible I/O expansion modules

- 24 VDC sink inputs
- 120 V sink inputs
- 0.1 A transistor, source outputs
- 2 A relay outputs
- 24 VDC sink/source inputs
- 0.4 A transistor, source outputs
- 0.5 A transistor, source outputs
- 0.6 A transistor, source outputs
- 0.8 A transistor, source outputs
- 1.2 A transistor, source outputs

### Supply voltage

- 24 VDC
- 19.2...30 VDC

### Real-time clock (option)

- Modbus master/slave, ASCII, I/O relocation

### Memory expansion

- Memory expansion, application backup, program transfer

### Modular connection

- RJ11
- RJ45

### Twido/PC USB port

- For Twido Extreme, order the reference: VW3A8114

### Dimensions, W x D x H

- 90 x 70 x 90 mm
- 150 x 70 x 90 mm
- 35.4 x 70 x 90 mm
- 47.5 x 70 x 90 mm
- 65.5 x 45.70 x 225

### Temperature

- -40...+100°C, storage: -55...+155°C

### Humidity

- 90% without condensation

### Software, connecting cables, interfaces

- Internal display module
- External display module

### Twido selection guide

> For Twido Extreme, order the reference: VW3A8106