

Smart relays  
**Zelio Logic**  
Your *advanced* solution!



# Zelio Logic: Unequalled *flexibility*...

Welcome to the **Simply Smart**\* world,  
compliments of Telemecanique.

Designed for the management of simple automation systems, the new generation of Zelio Logic smart relays provides you with **considerable gains** from the design stage to the monitoring of your applications due to its **flexibility** and **simplicity**.



You seek an optimised solution for your simple automation systems comprising 10 to 20 I/O?

With **Zelio Logic Compact**, **optimise** installation time, programming time and the cost of your application.

- 3 monobloc models with 10, 12 or 20 I/O: versions with and without display and buttons.



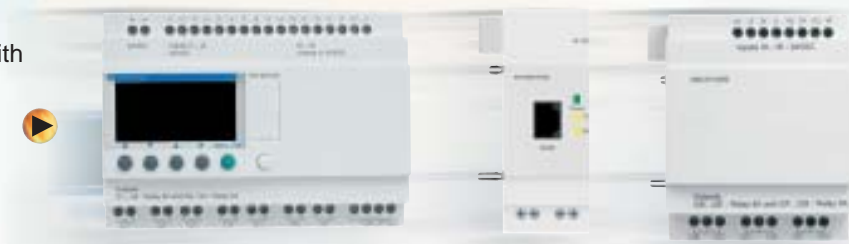
You seek a solution for more demanding applications comprising up to 40 I/O?

**Zelio Logic Modular** provides you with **performance** and **flexibility**...

- 2 bases, 10 and 26 I/O, expandable up to 40 I/O,
  - 3 input/output expansion modules: 6, 10 and 14 I/O,
  - 1 Modbus communication expansion module,
- ... for new functions and programming capabilities.

## A *solution* for each requirement:

- **2 ranges** to choose from: compact and modular.
- **An advanced solution** that takes into account specification variations, due to quick and high performance programming.
- Real programming using FBD (Functional Block Diagram) **function block** or **contact language** (LADDER).
- Programming and parametering to suit you:
  - directly using the buttons on the smart relay by **contextual navigation**, with excellent legibility provided by a **back-lit LCD display**, which is the largest on the market,
  - on a PC using Zelio Soft **ergonomic software**.



Modular base  
26 I/O

Modbus  
communication  
module

Expansion  
module  
14 I/O

\* **Simply Smart** : more ingenuity and intelligence for continually improving ease of use

... for a solution  
*optimised* to your applications...

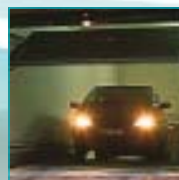
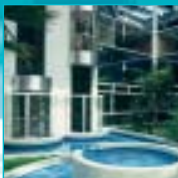
... comprising 10 to 40  
inputs/outputs:

### Industry

- Small machinery automation systems,
- Decentralised automation systems supplementary to large and medium size machinery.

### Buildings/Services

- Lighting management,
- Access, control and surveillance management,
- Heating and air conditioning management.



Discover  
Zelio Logic for  
**your applications**  
with the starter  
packs.

▶ Perfect suitability  
for all your  
applications  
thanks to a  
**complete offer**  
of Telemecanique  
products,  
from relays to  
the Nano PLC.



Zelio relay range

Zelio Logic

Twido  
programmable  
controller



# *Simplicity* at every stage to save time and improve reliability!

## Programming and parametering accessible to all:

- directly on the relay\*, with outstanding user-friendliness (without PC):
  - **back-lit LCD display, the largest** on the market: 4 lines of 18 characters and 1 line of icons.
  - **contextual navigation:** 6 buttons for simple programming, parametering and setting-up.
- on a PC using **Zelio Soft interactive software** comprising:
  - the programming software
  - a self-training module
  - a library of applications
  - technical instructions

All information  
and help for  
programming  
on a single CD!



### ■ Power supply / Inputs

12V DC,  
24V DC,  
24V AC,  
100 - 240V AC

### ■ Inputs

Limit switches,  
3-wire inductive  
sensors,  
sensors and  
potentiometers  
(0-10V)

### ■ Interface

PC programming,  
EEPROM  
memory card,  
Modem link.

### ■ Outputs

Relay,  
transistor



- ▶ Back-up of data + date and time:  
**10 years!**

- ▶ Standards and certifications:



## Simplified setting-up

- Simple to  
assemble

Add expansions  
on the modular  
range by **simple  
clipping-on**  
(locating studs).

- Simple to  
mount

Fixing **without  
accessories**:  
DIN rail or panel  
mounting (retracta-  
ble fixing lugs).

- Simple to  
integrate

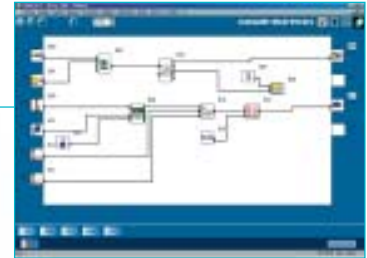
Extreme **compactness**  
for reducing the size  
of your enclosures  
(H 90 x W 71.2 x  
D 59 mm for  
12 I/O model).

\* Programming using the relay buttons only in LADDER, parametering in FBD or LADDER.

# Programming freedom...

## Zelio Soft speaks your *language*!

Whatever your choice of language or type of automation system, Zelio Soft meets all your requirements!



Choice of language

### LADDER language:

**simplicity** of programming assured by the universality of the **contact language**:

- User-friendliness of the “free input” mode: LADDER or electrical symbols
- 120 lines of control schemes
- 5 contacts + 1 coil per programming line
- New functions:

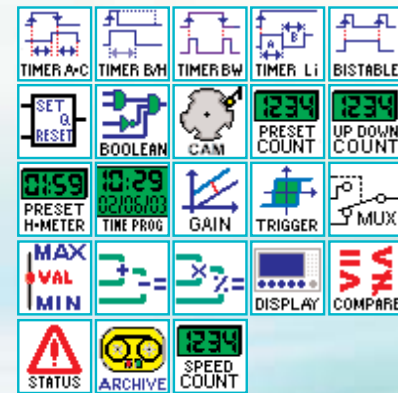


- 16 text function blocks,
- 16 timers,
- 16 up/down counters,
- 1 fast counter,
- 16 analogue comparators,
- 8 clocks,
- 28 auxiliary relays,
- 8 counter comparators,
- LCD screen with programmable back-lighting,
- Automatic 1 hour clock change: summer/winter,
- Diversity of coil functions; with memory (set/reset), remote switch, contactor.

### FBD language:

programming **flexibility** and **high capacity** of processing up to 200 function blocks, which include:

- 23 pre-programmed functions



- Grafset SFC (Sequential Function Chart) functions: for sequential automation systems



- 6 logic functions



- Inputs/outputs



## Quick programming... and *safe*!

- **Coherence test**: at the slightest input error, Zelio Soft turns red and precisely locates the problem.
- **Simulation and monitoring modes**: test the programme in real time, with or without the smart relay connected to the PC.
- **Supervision window**: enables viewing the I/O states of the smart relay in your application environment (drawing or image).
- **On line help**

# Monitor and control your installations *remotely!*



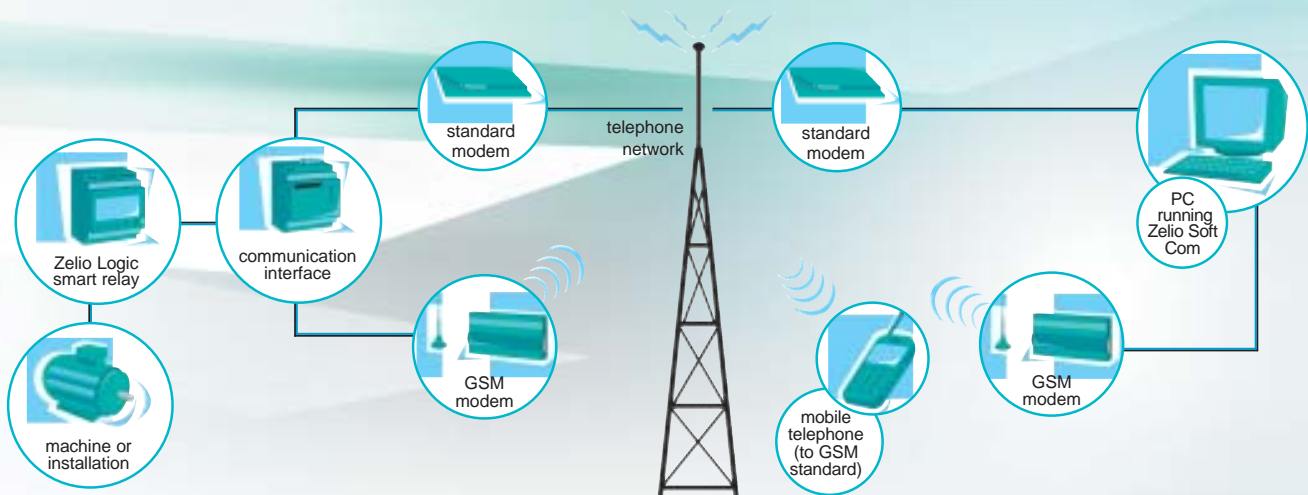
With the Zelio Logic communication interface monitor and remotely control your unmanned installations and **reduce your maintenance costs:**

- Avoid unnecessary on-site visits,
- Define your maintenance priorities,
- Perform pre-diagnostics.

With Zelio Soft software:


- Receive warning messages on a PC or mobile telephone via SMS,
- Supervise the application remotely,
- Transfer or supervise the programmes of a remote smart relay,
- Remotely force the programme elements status.

▶ Storage of messages, telephone numbers and calling conditions.






# Selection guide

		Voltage supply	No. of I/O	Discrete inputs	Including 0-10V analogue inputs	Outputs	Clock	Reference
<div><div>Zelio Logic Compact with or without display</div><div></div></div>	With display	--- 12 V	12	8	4	4 O relay	Yes	SR2B121JD
			20	12	6	8 O relay	Yes	SR2B201JD
		--- 24 V	10	6	-	4 O relay	No	SR2A101BD *(1)
			12	8	4	4 O relay	Yes	SR2B121BD(2)
			12	8	4	4 O transistor	Yes	SR2B122BD
			20	12	2	8 O relay	No	SR2A201BD *(1)
			20	12	6	8 O relay	Yes	SR2B201BD(2)
			20	12	6	8 O transistor	Yes	SR2B202BD
		~ 24 V	12	8	-	4 O relay	Yes	SR2B121B(2)
			20	12	-	8 O relay	Yes	SR2B201B(2)
		~ 100...240 V	10	6	-	4 O relay	No	SR2A101FU *(1)
			12	8	-	4 O relay	Yes	SR2B121FU(2)
			20	12	-	8 O relay	No	SR2A201FU *(1)
			20	12	-	8 O relay	Yes	SR2B201FU(2)

\* LADDER programming only.

(1) Replace the letter **A** by the letter **D** to order a Zelio Logic Compact without display (example: SR2**D**101BD)

(2) Replace the letter **B** by the letter **E** to order a Zelio Logic Compact without display (example: SR2**E**121BD)

<b>Zelio Logic Modular*</b>  	<div>With display</div> <div>24 V</div>	10	6	4	4 O relay	Yes	SR3B101BD
		10	6	4	4 O transistor	Yes	SR3B102BD
		26	16	6	10 O relay	Yes	SR3B261BD
		26	16	6	10 O transistor	Yes	SR3B262BD
	<div>Without display</div> <div>24 V</div>	10	6	-	4 O relay	Yes	SR3B101B
		26	16	-	10 O relay	Yes	SR3B261B
		~ 100...240 V	10	6	4 O relay	Yes	SR3B101FU
			26	16	10 O relay	Yes	SR3B261FU


\*Each modular base can be fitted with one communication module and one I/O expansion module.


I/O expansion and communication modules	For use with	No. of I/O	Inputs. Discrete	Relay outputs	
	Only for use with Zelio Logic Modular	6	4	2	SR3XT61●●(3)
		10	6	4	SR3XT101●●(3)
		14	8	6	SR3XT141●●(3)
Type		Supply voltage			
Modbus (slave)		24 V		SR3MBU01BD▲	



(3) Replace ●● by **BD** for 24 V supply, **B** for ~ 24 V, or by **FU** for ~ 100...240 V supply.

NB: The power supply of the expansion modules is provided via the Zelio Logic modular relays

▲ Available 1<sup>st</sup> quarter 2004

		Voltage supply	No. of I/O	Composition	
	Compact	≡ 24 V	12	1 x SR2B121BD relay + 1 connecting cable + 1 software CD	SR2PACKBD
			20	1 x SR2B201BD relay + 1 connecting cable + 1 software CD	SR2PACK2BD
		∼ 100...240 V	12	1 x SR2B121FU relay + 1 connecting cable + 1 software CD	SR2PACKFU
			20	1 x SR2B201FU relay + 1 connecting cable + 1 software CD	SR2PACK2FU
	Modular	≡ 24 V	10	1 x SR3B101BD relay + 1 connecting cable + 1 software CD	SR3PACKBD
			26	1 x SR3B261BD relay + 1 connecting cable + 1 software CD	SR3PACK2BD
		∼ 100...240 V	10	1 x SR3B101FU relay + 1 connecting cable + 1 software CD	SR3PACKFU
			26	1 x SR3B261FU relay + 1 connecting cable + 1 software CD	SR3PACK2FU

	Input voltage	Nominal output voltage	Nominal output current	
<b>Power supply units</b>  	100 to 240 V	12 V	1,9 A	ABL7RM1202
	(47...63 Hz)	24 V	1,4 A	ABL7RM2401

	Description	
 <b>Zelio Soft multilingual software</b>	PC	Zelio Soft programming software for PC
		Smart relay - PC connecting cable (L = 3m)
 <b>Communication interface*</b>		Communication interface (— 12 - 24V supply voltage)
		Programming software
		Standard modem
		GSM modem
		GSM accessories kit
		Communication interface - analogue modem connecting cable
		Communication interface - PC connecting cable
<b>Accessories</b> <b>Documentation</b>		EEPROM memory card
		Zelio user's guide for direct programming on the smart relay

\* Availability 1<sup>st</sup> half 2004.

(4) To order the desired language for the user's guide replace ●● by: EN for English, FR for French, DE for German, IT for Italian, PO for Portuguese, SP Spanish.

**Compatibility**  
to ensure  
performance  
at no extra cost

- Zelio Logic: complete synergy with other Telemecanique automation system products.



**A unique partner,**  
a global presence

**Constantly available**  
worldwide

- With more than 5000 points of sale in 130 countries, you can be sure to find the range of products which is right for you and which complies fully with the standards in the country in which they are to be used.

**Technical assistance**  
wherever you are

- Our technicians are at your disposal to assist you in finding the optimum solution for your particular needs. Schneider provides you with all necessary technical assistance, throughout the world.

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