

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?

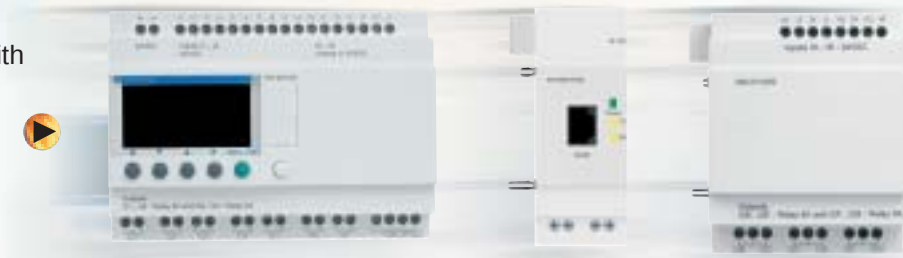
Zelio Logic Modular provides you with
performance and **flexibility**...

- 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

... 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



Twido
programmable
controller

Zelio Logic

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 (retractable 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.

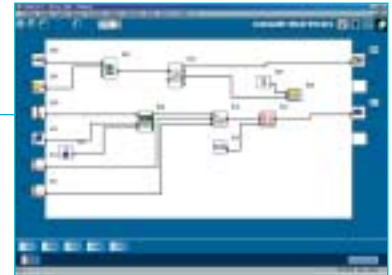
Programming freedom...

Zelio Soft speaks your *language*!

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



Choice of language



LADDER language:

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

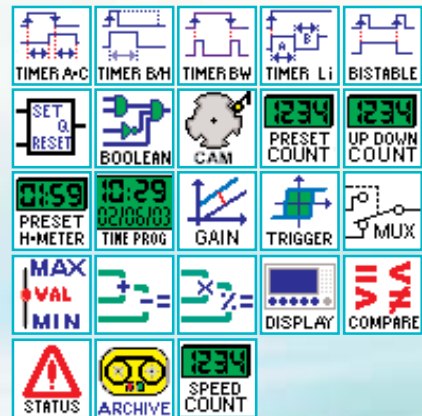
- User-friendliness of the “free input” mode: LADDER or electrical symbols
- 120 lines of control schemes
- 5 contacts + 1 coil per programming line
- New functions:

- 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!*



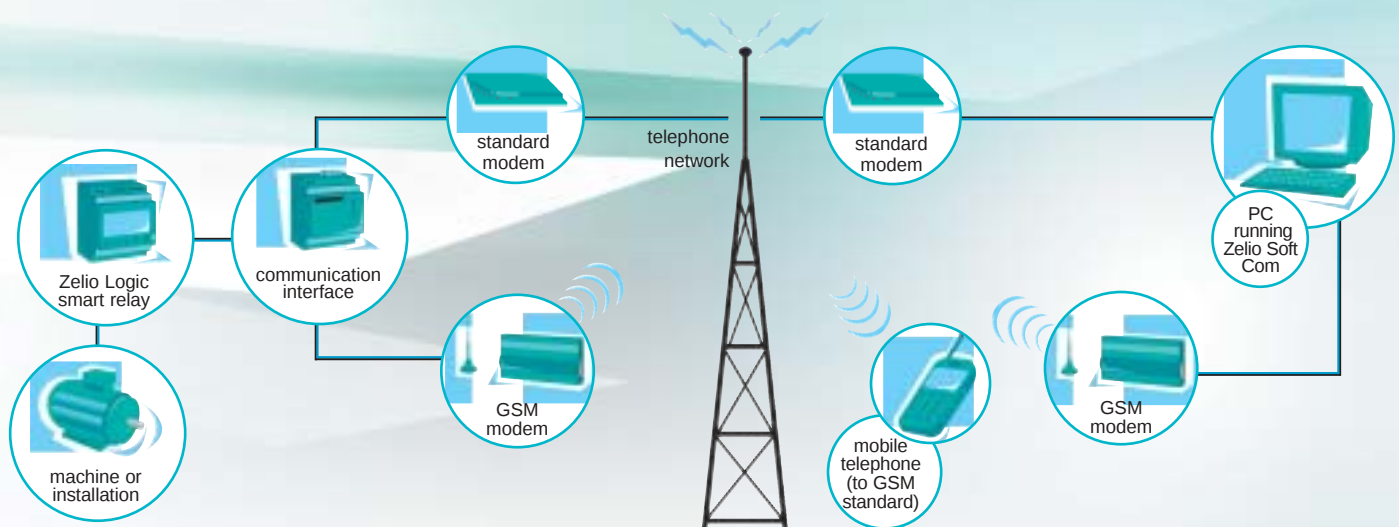
With the Zelio Logic **communication interface** monitor and remotely control your unmanned installations and **reduce your maintenance costs**:

- 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
Zelio Logic Compact with or without display 	With display 12 V	12	8	4	4 O relay	Yes	SR2B121JD
		20	12	6	8 O relay	Yes	SR2B201JD
		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)
	24 V	20	12	6	8 O relay	Yes	SR2B201BD(2)
		20	12	6	8 O transistor	Yes	SR2B202BD
		12	8	-	4 O relay	Yes	SR2B121B(2)
		20	12	-	8 O relay	Yes	SR2B201B(2)
		10	6	-	4 O relay	No	SR2A101FU*(1)
		12	8	-	4 O relay	Yes	SR2B121FU(2)
	~ 24 V	20	12	-	8 O relay	No	SR2A201FU*(1)
		20	12	-	8 O relay	Yes	SR2B201FU(2)
	~ 100...240 V	10	6	-	4 O relay	No	SR2A101FU*(1)
		20	12	-	8 O relay	No	SR2A201FU*(1)

* 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)

Zelio Logic Modular* 	With display 24 V	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
	~ 24 V	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 1st quarter 2004

Starter packs	Voltage supply	No. of I/O	Composition	
	24 V	12	1 x SR2B121BD relay + 1 connecting cable + 1 software CD	SR2PACKBD
	Compact	20	1 x SR2B201BD relay + 1 connecting cable + 1 software CD	SR2PACK2BD
		12	1 x SR2B121FU relay + 1 connecting cable + 1 software CD	SR2PACKFU
	~ 100...240 V	20	1 x SR2B201FU relay + 1 connecting cable + 1 software CD	SR2PACK2FU
		10	1 x SR2B121FU relay + 1 connecting cable + 1 software CD	SR2PACKFU
	Modular	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

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

Zelio Soft multilingual software	Description	
	Zelio Soft programming software for PC	SR2 SFT01
	Smart relay - PC connecting cable (L = 3m)	SR2 CBL01
Communication interface* 	Communication interface (24 V supply voltage)	SR2 COM01
	Programming software	SR2 SFT03
	Standard modem	SR1 MOD01
	GSM modem	SR1 MOD02
	GSM accessories kit	SR1 KIT02
	Communication interface - analogue modem connecting cable	SR1 CBL03
	Communication interface - PC connecting cable	SR1 CBL04

Accessories Documentation	EEPROM memory card	SR2MEM01
	Zelio user's guide for direct programming on the smart relay	SR2MAN01** (4)

* Availability 1st 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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