## Telemecanique **Zelio Logic**

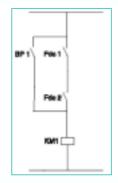
Logically *advanced!...* 

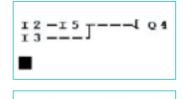




# Zelio Logic... a *host* of functions, for a *multitude* of applications







- The simplicity of its programming, assured by the universality of the **contact language** (the closest to electrical diagram representation), meets the demands of the automation engineer and the requirements of the electrician.
- Programming can be performed:
  - locally, using buttons and display screen on the front face of the smart relay,
  - on a PC, using «Zelio Soft» multilingual software,
  - on universal assistant Pocket PC, using «Zelio Soft Pocket PC» software.

Standards and certifications
UL / CSA / C-Tick / GL
CE marking

## A *complete* and *high performance* range

#### ( ) Smart relays with display (10 to 20 I/O)

■ The simplicity of programming directly on the front of the product, due to the ergonomics of the buttons, reduces the usage of documentation to a minimum.

#### Smart relays without display and without buttons (10 to 12 I/O)

These provide not only a competitively priced solution, but also confidentiality of applications.

#### Smart relays with integrated AS-i interface

Designed to allow the creation of local automation sequences.



#### Smart relays with relay or transistor outputs

- Relay outputs: high breaking capacity (8 A),
- Transistor outputs: for direct control of contactors and integral protection against short-circuits and overloads.

#### Range of supply voltages available:

- 12 V DC, 24 V AC, 24 V DC, 100 to 240 V AC,
- Supply modules specifically for sensors/actuators.

#### A host of functions:

#### **Functions**

Up to 10 timers, each configurable from a choice of 8 different types (0.1 seconds to 100 hours).

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KM<sub>1</sub>

- Up to 10, 4-digit, up/down counters (0 to 9999).
- 8 analogue comparators, each configurable from a choice of 7 types of comparison,
- 4 clocks, each with 4 channels,
- 15 auxiliary relays,
- Diversity of coil functions; with memory (set/reset), remote switch, normal.

#### Modes

#### Parametering mode

Enables the parameter values of the function blocks to be adjusted.

#### Display mode

Enables display of the current values of the various function blocks.

#### Diagnostic mode

In RUN mode, view the I/O status.









### Zelio Soft...

### *Intuitive* programming!

- Delio Soft multilingual software enables:
  - Inputting of control schemes:
    - Very user-friendly due to the «free input» mode:
       3 alternative languages can be used,
       Zelio symbols, Ladder symbols and electrical symbols.
    - Capable of programming 60 lines minimum of control schemes.
    - Savings in time due to automatic tracing of links between contacts and coil.
  - Detection in the event of programming errors via its coherence test function: savings in time plus reliability: at the slightest input error, Zelio Soft turns red. The problem can be located by simply clicking the mouse.
  - Inputting of messages for display on Zelio Logic: configuration of 4 or 6 Text function blocks.
  - Programme testing: reduce your debugging costs!
    - The simulation mode makes it possible to test all the programmes, without a smart relay, simulate the application programme in real time or accelerated time and dynamically display in red the various active elements of the programme.
    - The supervision mode makes it possible to test the programme executed by the smart relay:
      - · on-line viewing of programme,
      - force inputs and outputs, auxiliary relays and current values of function blocks,
      - · adjust the time,
      - switch from STOP mode to RUN mode and vice versa.



#### > Zelio Soft software for PC

Description	Reference
Connecting cable smart relay to PC, length 1.8 m	SR1 CBL01
Kit comprising: Zelio Soft programming software + cable	SR1 KIT01
Zelio Soft multilingual programming software for PC including on-line user's guide for the PC	SR1 SFT01

## Programming software for Pocket PC...

programming and setting-up within hands reach!



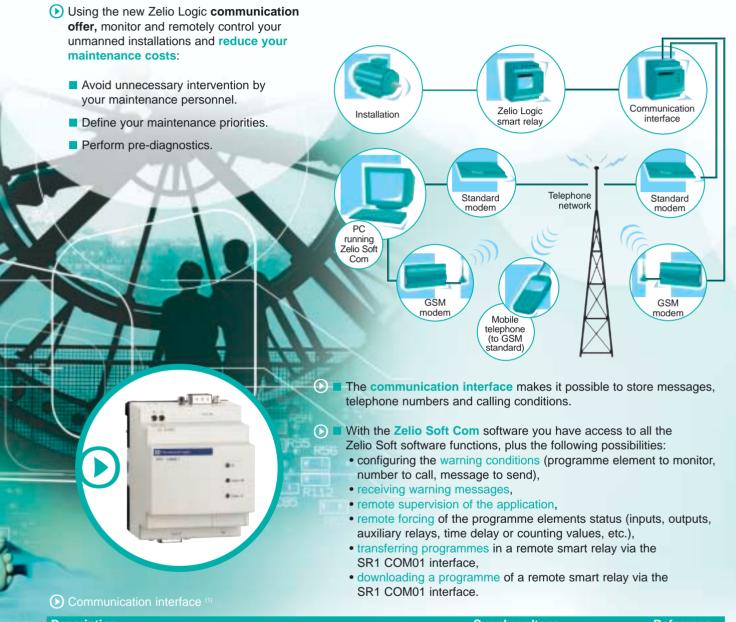
#### ▶ Zelio Soft software for Pocket PC

Description	Reference
Connecting cable Pocket PC Sub-D-9 connector to smart relay	SR1 CBL02
Programming software for Pocket PC (also including the Zelio Soft multilingual software for PC)	SR1 SFT02
Recommended Pocket PCs (order from appropriate distributor):	

**Recommended Pocket PCs** (order from appropriate distributor): Hewlett Packard "Jornada 525, 545 and 548", Compaq "Ipaq" 3630, Casio Casiopeia EM 505.

### Communication interface ...

## Control and monitor your installations *remotely!*



Description	Supply voltage	Reference
Communication interface	≕ 12-24 V	SR1 COM01
<b>Programming software</b> (2) (including "Zelio Soft Com" programming software and GSM "SIM Config" modem configuration software).		SR1 SFT03
Standard modem		SR1 MOD01
GSM modem		SR1 MOD02
GSM accessories Kit		SR1 KIT02
Connecting cables		
Smart relay to communication interface		SR1 CBL01
Communication interface to standard modem or standard modem to PC Communication interface to PC		SR1 CBL03 SR1 CBL04
Communication interface to FC		OITT ODLOT

<sup>&</sup>lt;sup>(1)</sup> Available 1st quarter 2003 (only with smart relays version 1.7).

<sup>(2)</sup> Also enables programming of any smart relay of the SR1 range, even if they are used without a communication interface.



## Zelio Logic selection guide

	Supply voltage	Number of discrete inputs (1)	Number of outputs	Clock*	Reference		
Smart relays	12 V	8 (2)	4 O relay	Yes	SR1 B121JD		
	≕ 24 V	6	4 O relay	No	SR1 A101BD		
* T		8 (2)	4 O relay	Yes	SR1 B121BD		
		8 (2)	4 O transistor	Yes	SR1 B122BD		
		12	8 O relay	No	SR1 A201BD		
to estatute		12 (2)	8 O relay	Yes	SR1 B201BD		
2.5	$\sim$ 24 V	6	4 O relay	Yes	SR1 B101B		
		12	8 O relay	Yes	SR1 B201B		
	$\sim$ 100/240 V	6	4 O relay	No	SR1 A101FU		
		6	4 O relay	Yes	SR1 B101FU		
		12	8 O relay	No	SR1 A201FU		
		12	8 O relay	Yes	SR1 B201FU		
Smart relays	== 24 V	6	4 O relay	No	SR1 D101BD		
without display & without buttons		8	4 O relay	Yes	SR1 E121BD		
*********	$\sim$ 100/240 V	6	4 O relay	No	SR1 D101FU		
	The state of	6	4 O relay	Yes	SR1 E101FU		
Corner Contract Contr							
Smart relays with integrated AS-i	=== 24 V	8 (2)	6 O relay	Yes	ASI SR1470R		
interface (3)		8 (2)	6 O transistor	Yes	ASI SR1470T		
	(a) Available 1st quarter 2003						
Power supply	Input voltage	Nominal output voltage	Nominal output	current	Reference		
M. Crimit	100 to 240 V 47/63 Hz	== 12 V	1.9 A		ABL 7RM1202		
Sales of the last		== 24 V	1.4 A		ABL 7RM2401		
Accessories	EEPROM back-up memory				SR1 MEM01		
Documentation	Zelio user's guide for	direct programming on the	ogic smart relay		SR1 MAN01••**		
	**To order the desired language for the user's guide, replace the •• in the reference by: <b>EN</b> for English, <b>FR</b> for French, <b>DE</b> for German, <b>ES</b> for Spanish, <b>IT</b> for Italian.						
Starter pack	== 24 V pack, including software disk, connecting cable and SR1 B121BD smart relay SR1 PACKBD						
THE RESERVE OF THE PARTY OF THE	$\sim$ 100/240 V pack, ir	ncluding software disk, conne	ecting cable and SR1 B1	101FU smart relay	SR1 PACKFU		
Zelic C	== 24 V pack, includi	ng software disk, connecting	cable and SR1 B201B	D smart relay	SR1 PACK2BD		
0	$\sim$ 100/240 V pack, ir	ncluding software disk, conne	ecting cable and SR1 B2	201FU smart relay	SR1 PACK2FU		



- \* All smart relays (version 1.7) with clock provide extended functions:
- Simplified starting-up: maintained in RUN mode in event of time circuit failure.
- Back-up function in event of power failure:
  - time backed-up for 150 hours
  - back-up of 5 counters
  - back-up of 2 timers
  - status of all auxiliary relays

- More possibilities with additional function blocks:
  - 2 additional timers (10 total)
  - 2 additional counters (10 total)
  - 2 additional text blocks (6 total)





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Owing to the changes in standards and equipment, the characteristics given in the text and images in this document are not binding until they have been confirmed with us.

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