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Find the *OMRON SRM1-C01-V2* at our website: *Click HERE*

SRM1
Micro Controller

Capture the Power and Flexibility of High-Speed Distributed I/O



OMRON

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Powerful, Expandable and Innovative Cont

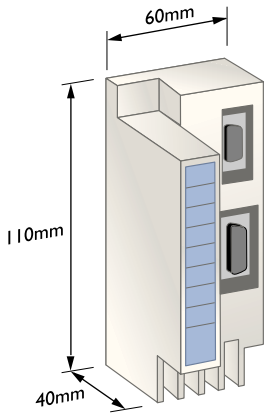
Take control of your most challenging applications with a powerful and easily customizable control solution. Omron has designed a unique control solution that gives you access to several different I/O options, requires only 'twisted pair' wiring and fits into a compact space.

The innovative SRM1 micro controller maximizes space by relying on distributed I/O instead of fixed I/O. This unique configuration style frees up panel space and reduces wiring, requiring only the SRM1 to be mounted in the panel. The I/O can be distributed anywhere on the machine.

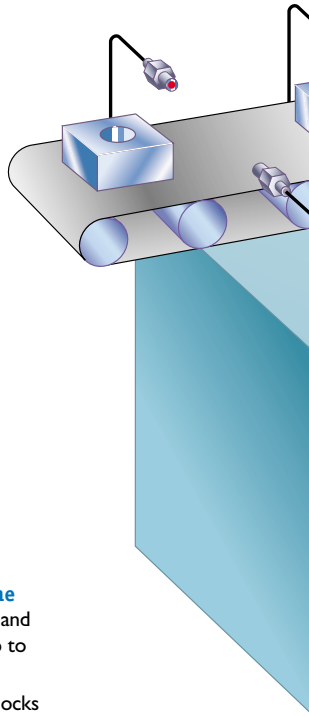
The SRM1 combines power, customizable hardware configurations and easy setup to solve multiple applications. Starting with software and setup, the SRM1 is quickly setup using a Windows®-based programming software. Its superior performance is based on a 4K word-program capacity, extensive 137-word command instruction set and an instruction execution speed of 0.8 microseconds. The SRM1 distributes information at a fast 750 kbps, regardless of the number of I/O points (the SRM1 can control up to 256 I/O) via Omron's CompoBus/S communications network. There are a wide variety of available I/O modules that allow you to customize the SRM1 to your exact needs.



SRM1 reduces wiring by using 'twisted pair' wire.

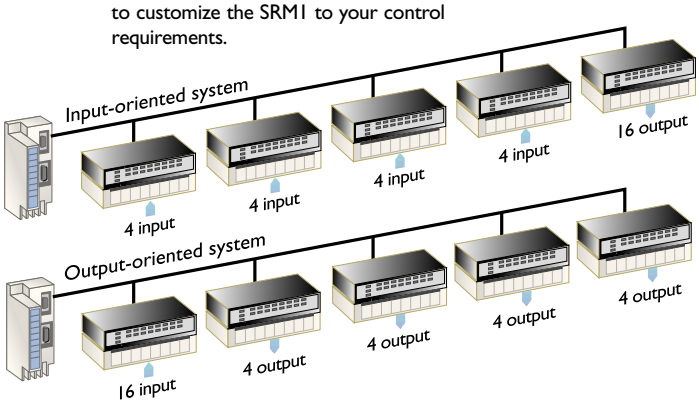


Compact, space-saving design
Mount the SRM1 in the control panel or on a DIN rail.



Easily expandable design that operates without a backplane
Customize the SRM1 to any process and only buy the necessary I/O blocks, up to 256 I/O points.

Choose from a wide variety of I/O blocks to customize the SRM1 to your control requirements.



SRT1-ROF16
MOS FET Relay Output - 16 points



SRT1-ID04-1
Transistor Input (PNP) Modules

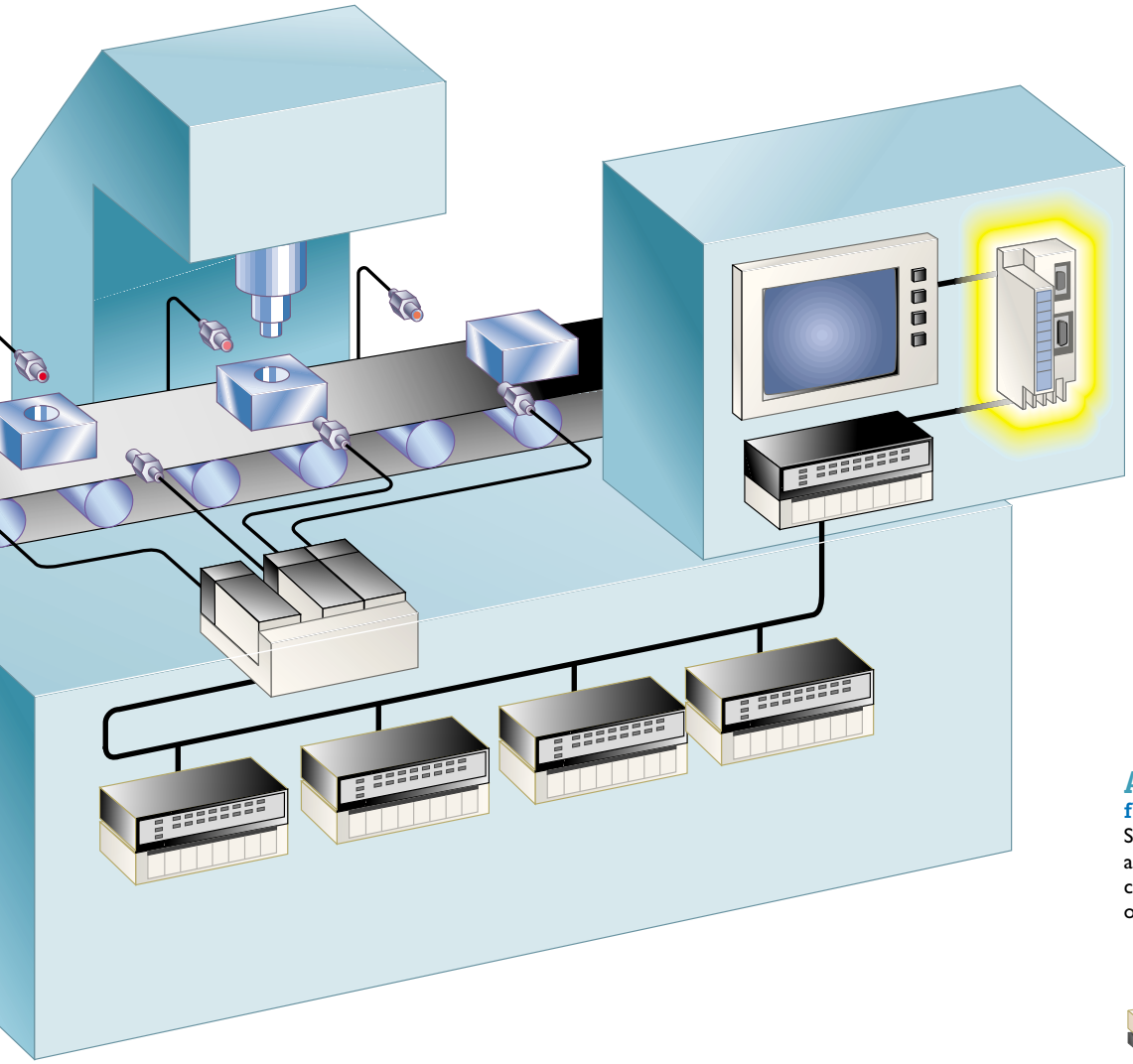


SRT1-ND08S
Sensor Input/Output: 4 in/ 4 out



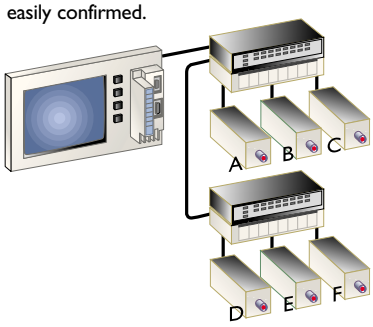
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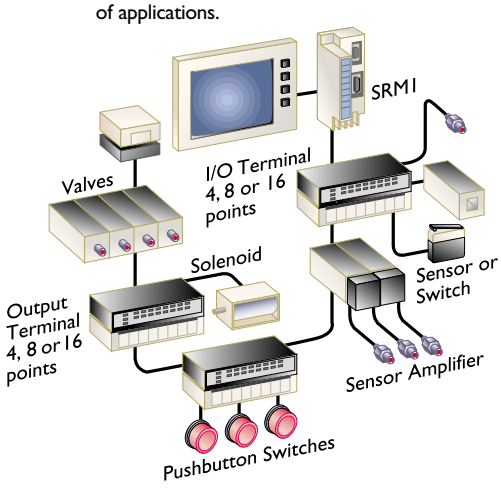
Confirm distributed I/O from one point

CompoBus/S bit information is accessible from the SRM1. For example, a central confirmation terminal can be placed so that confirmation of even hard-to-see parts of control panels can be easily confirmed.



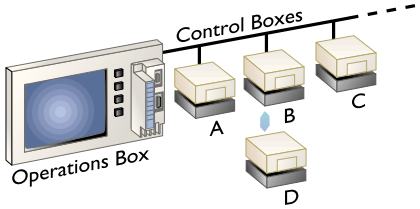
A wide array of slaves for flexible application

Sensor Amplifier terminals, Remote Terminals, and many other CompoBus/S Slaves can be connected to meet the needs of a wide range of applications.



Use control box modules for small machine control

Downsizing and reduced wiring enables modular applications of control boxes. Modules let you use the same design drawings and enable easy replacement for failures. Maintenance is simplified.



SRT1-TKD04S E3X-NM Communication Unit with E3X-NT16 Multi-function Sensor Unit, 4 Channels



SRT1-ID16P
16 Point PCB Input/Output Module



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Standard Models

Product Name	Model	
CPU	SRM1-C01 (without RS-232C Interface)	
	SRM1-C01-V1 (without RS-232C; Battery back-up)	
	SRM1-C02 (with RS-232C Interface)	
	SRM1-C02-V1 (with RS-232C; Battery back-up)	
RS-232C/RS-422 Adapters and Connecting Cables		
Communications Adapter (Mounting type)	CPM1-C1F01	Peripheral device to RS-232C Adapter
	CPM1-C1F11	Peripheral device to RS-422C Adapter
Personal Computer Connecting Cable	CQM1-C1F02	Peripheral to IBM PC/AT or compatible computer (3.3 m)
	C200HS-CN220-EU	RS-232 port to 9-pin IBM PC/AT (1.8 m)
	C200HS-CN229-EU	RS-232 port to 25-pin IBM PC/AT (1.8 m)
Programming Tools		
Programming Consoles	CQM1-PRO01	With 2-m cable
	C200H-PRO27-E	—
	C200H-CN222	2-m connecting cable for C200H-PRO27-E
	C200HS-CN220-EU	RS-232 port to 9-pin IBM PC/AT (1.8 m)
SYSMAC-CPT Programming Software	WS01-CPT-EV1.__	For IBM PC/AT or compatible computer
Standard Slave Units		
Transistor Remote Terminals	SRT1-ID04	Transistor input: 4 points
	SRT1-ID08	Transistor input: 8 points
	SRT1-ID16	Transistor input: 16 points
	SRT1-ID04-1	Transistor (PNP) input: 4 points
	SRT1-ID08-1	Transistor (PNP) input: 8 points
	SRT1-ID16-1	Transistor (PNP) input: 16 points
	SRT1-OD04	Transistor output: 4 points
	SRT1-OD08	Transistor output: 8 points
	SRT1-OD16	Transistor output: 16 points
	SRT1-OD04-1	Transistor (PNP) output: 4 points
	SRT1-OD08-1	Transistor (PNP) output: 8 points
	SRT1-OD16-1	Transistor (PNP) output: 16 points
PCB Remote I/O Modules	SRT1-ID16P	PCB input module (NPN; +com): 16 points
	SRT1-OD16P	PCB output module (NPN; -com): 16 points
Sensor Terminals	SRT1-ID08S	Sensor input: 8 points
	SRT1-ND08S	Sensor input/output: 4 in / 4 out
Relay Remote Terminals (Relays included)	SRT1-ROC08	Relay output: 8 points
	SRT1-ROC16	Relay output: 16 points
	SRT1-ROF08	MOS FET relay output: 8 points
	SRT1-ROF16	MOS FET relay output: 16 points
Sensor Amplifier Terminals	SRT1-TID04S	E3X-NT Communication Unit
	SRT1-TKD04S	E3X-NM Communication Unit
	SRT1-XID04S	E3X-NT Communication Unit Expansion
	SRT1-XKD04S	E3X-NM Communication Unit Expansion
Sensor Units	E3X-NT16	General Purpose, 1 channel
	E3X-NT26	Multi-functional, 1 channel
	E3X-NH16	Long distance, High precision; 1 channel
	E3X-NM16	Multi-functional, 4 channels
	E39-JID01	Sensor Terminal Block unit, 1 channel
Cables and Connectors	SCN1-TH4	Branch Connector
	SCN1-TH4E	Extension Connector
	SCN1-TH4T	Connector Terminator
	SRS1-T	Terminal Block Terminator
	SCA1-4F10	Flat Cable

General Specifications & Performance

Item		Omron's Specifications
External dimensions	inches	4.33 H x 1.57 W x 2.36 D
	mm	110 H x 40 W x 60 D
Supply voltage		24 VDC
Allowable supply voltage		20.4 to 26.4 VDC
Power consumption		3.5 W max. (when connected to a Programming Console)

Communications Specifications

Communications method	CompoBus/S protocol	
Number of connectable terminals	32 max	16 max
Maximum number of inputs	128 input and 128 outputs	64 inputs and 64 outputs
Communications cycle time	0.8 ms	0.5 ms
Baud rate	750 kbps	
Communications cable length	Main line length: 100 m max. (when using VCTF cable) Branch line length: 3 m Total length of branches: 50 m max.	
Cable	VCTF cable: two or four conductor cable (Belden 9409 or equivalent) or special-purpose flat cable (four conductors) (SCAI-4F10)	

CPU Specifications

Programming language	Ladder diagram
Types of instructions	14 basic instructions and 77 special instruction types (total of 123 special instructions)
Processing speed	0.8 µs for LD instructions and 8.5 µs for MOV instructions
Program capacity	4,096 words
Data memory	2,048 words + 512 words (Read only)
Timers/Counters	128 timers/counters
Work bits	640 bits
Memory backup	Flash memory (no back up needed): user programs Capacitor (SRM1-C01 & SRM1-C02 only): data memory (backs up for 20 days at 25°C) Battery (SRM1-C01-V1 & SRM1-C02-V1only): data memory (backs up for 10 years at 25°C)
Peripheral port	One port
RS-232C port	One port (SRM1-C02 and SRM1-CO2-V1) Host Link, NT Link, 1:1 Link, No Protocol
Programming tools	Programming Console, SYSMAC-CPT

CompoBus/S

Part of the CompoBus/S Communications Network

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