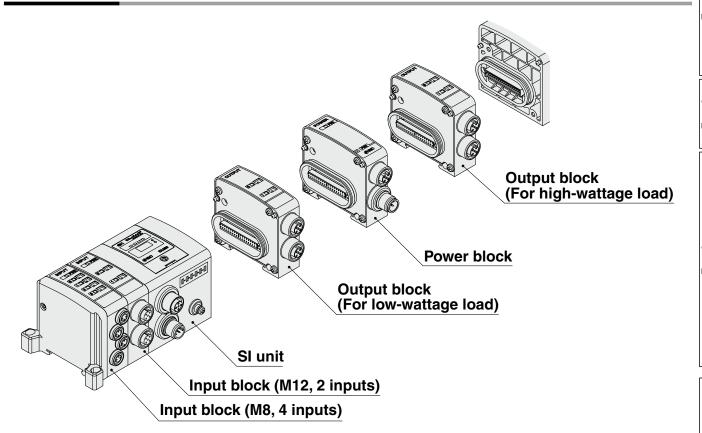
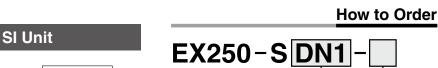
Fieldbus System For Input/Output

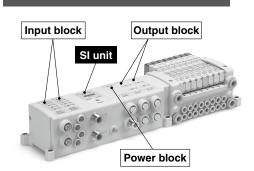
EX250 Series (& Salvertes)

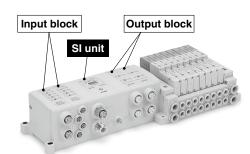
 Only the SY and SV valves are UL-compliant.

Parts Structure









Made to Order ⇒ p. 167
DeviceNet™ 7/8 inch connector

DN1*1	DeviceNet™
DN1-X102*1	DeviceNet™
PR1	PROFIBUS DP
AS3	AS-Interface (8in/8out 31 Slave Mode, 2 power supply systems)
AS5	AS-Interface (4in/4out 31 Slave Mode, 2 power supply systems)
AS7	AS-Interface (8in/8out 31 Slave Mode, 1 power supply system)
AS9	AS-Interface (4in/4out 31 Slave Mode, 1 power supply system)
CA1A	CANopen
EN1	EtherNet/IP™

^{*1} DN1's occupied points are 32 inputs and 32 outputs, while DN1-X102 has 48 inputs and 32 outputs.

0 EX123/124/126

EX50

5 EX600

20 E

EX120/121/122

EX140

EX180

EX510

/M12

ATEX

EX250 Series

Specifications

Model		EX250-SDN1	EX250-SDN1-X102	EX250-SPR	EX250-SCA1A	EX250-SEN1	EX250-SAS3/5	EX250-SAS7/9		
Communication		Protocol	Device	eNet™	PROFIBUS D	CANopen	EtherNet/IP™	AS-Int	erface	
	Applicable system	Version*2	Release 2.0		DP-V0	CiA DS-301 V4.02 CiA DS-401	Release 1.0	Ver. 2.11 (Standard Address Mode)		
	Communication speed		125 k/250 k/500 kbps		9.6 k/19.2 k/ 45.45 k/93.75 l 187.5 k/500 k 1.5 M/3 M/6 M 12 Mbps	125 K/250 K/	10 M/100 Mbps	167 kbps		
	Configuration file*3		EDS	S file	GSD file	EDS file	EDS file			
	I/O occupation area (Inputs/Outputs)		32/32	48/32	32/32	32/32	48/32	SAS3: 8/8 (2 slave units) SAS5: 4/4	SAS7: 8/8 (2 slave units) SAS9: 4/4	
	Applicable	Applicable function		QuickConnect™		_	_	_	_	
	Terminating resistor			Not provided				provided (Not required)		
Power supply voltage	For control		(Supp	25 VDC lied by t™ circuit)	24 VDC ±20%	CANopen circuit)	24 VDC ±20%	(Supplied by 31.6 VD)	26.5 to 31.6 VDC	
	For sensors		24 VD0	C ±20%	24 VDC±20%			AS-i circuit) (Supplied by	(Supplied by AS-i circuit)	
	For valve			24 VDC +10%/-5% AS-I CIRCUIT)						
Internal current consumption (Unit)		100 mA or less					SAS3: 100 mA or less SAS5: 65 mA or less	SAS7: 100 mA or less SAS9: 65 mA or less		
Input	Number of	inputs	32 inputs (Based on input block connection) SAS3: 8 inputs SAS5: 4 inputs						SAS7: 8 inputs SAS9: 4 inputs	
	Supply vol	tage	24 VDC							
	Supply current		1 () A Or IASS					SAS3: 240 mA or less SAS5: 120 mA or less	*5	
Output	Output typ	e	Source/PNP (Negative common)							
	Number of	outputs			32 outputs			SAS3: 8 outputs SAS5: 4 outputs	SAS7: 8 outputs SAS9: 4 outputs	
	Load		Solenoid valve with surge voltage suppressor 24 VDC, 1.5 W or less (SMC) Output block Power block							
	Supply vol	tage	24 VDC							
	Supply cur	rent			2.0 A or less			SAS3: 500 mA or less SAS5: 250 mA or less	*5	
	Fail safe			CLEAR setting)	CLEAR	HOLD/CLEAR (Switch setting)				
Environmental resistance	Enclosure				IP67					
	Operating ten	nperature range	5 to +45°C		-10 to +50°C			5 to +45°C		
	Operating h	umidity range			35 to 85%RH (No condensation)					
	Withstand	voltage		500 V	VAC for 1 minute between whole external terminal and FG					
		10 MΩ or more (500 VDC) between whole external terminal and FG								
Standards		CE marking (EMC directive/RoHS directive), UL (CSA)								
Weight			250 g							
Accessory*6			Tie-rod 2 pcs.							

^{*1} This is a specification to transmit the diagnostic information of voltage drop of the valve power supply and input block fuse blowout as an input data to the master. The EX250-SDN1 becomes I/O connection time out when the diagnostic information is detected, but not EX250-SDN1-X102.

Since this is a special product, a manifold part number is not specified. Please consult SMC for the manifold integrated type.



^{*2} Please note that the version is subject to change.

 $^{*3 \ \ \}text{The setting file can be downloaded from SMC website, http://www.smcworld.com}$

^{*4} Since the EX250-SAS7/9 is compatible with the 1 power supply system, the power supply for units is divided into two: the power supply for sensors and for valves.

^{*5} Since the EX250-SAS7/9 is compatible with the 1 power supply system, the power supply must be divided in accordance with the values below. (Refer to page 170 for details.)

EX250-SAS7 ··· Max. 240 mA, EX250-SAS9 ··· Max. 120 mA

^{*6} When the SI unit is mounted to the manifold when shipped, accessories are shipped together with it.

^{*7} For detailed specifications other than the above, refer to the operation manual that can be downloaded from SMC website, http://www.smcworld.com