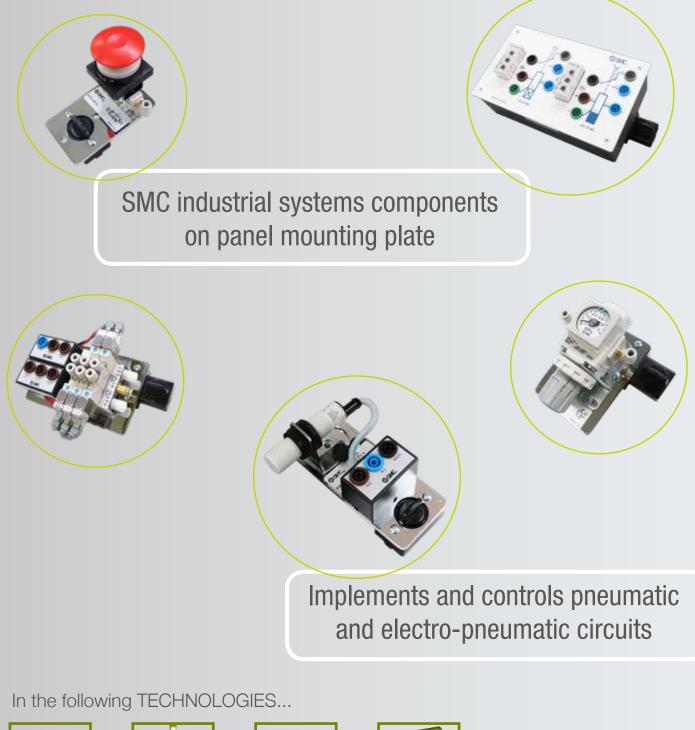


End-to-end solution for training in pneumatics and electro-pneumatics







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Develop the SKILLS...





## PNEUTRAINER-400 - Pneumatics - Electropneumatics

A fully modular and flexible system designed for the development of professional skills related to pneumatics and electro-pneumatics.

Its flexibility makes PNEUTRAINER-400 equipment adaptable to all types of user requirements and needs. It also makes a staggered investment over time possible.



#### Assembly panels

Based on an anodized extruded aluminium structure, these assembly panels offer various options. From the basic horizontal panel to the mobile table, we offer solutions adapted to all user requirements.

The rolling table includes a panel which enables users to work on both sides at the same time. It also includes a support shelf for component drawers and the pneumatic compressor.

All the options provide a perfect basis to carry out a range of practical activities.



#### Industrial materials -



All the components used are industrial. Developed and manufactured by SMC and popular throughout the world, they meet the highest quality levels. The components are mounted on a base plate.

In order to be identified correctly they have a label with a corresponding reference as well as standardized symbols.



### Connections \_\_\_\_

The pneumatic components incorporate instant connectors for 4 mm pipes. The electropneumatic components have 4 mm instant connecting safety cables.



#### Storage

The standard kits include a storage system in EUROBOX containers with trays which allow perfect identification and storage whilst occupying minimum space.

These boxes and trays can also be purchased for the storage of customized kits.



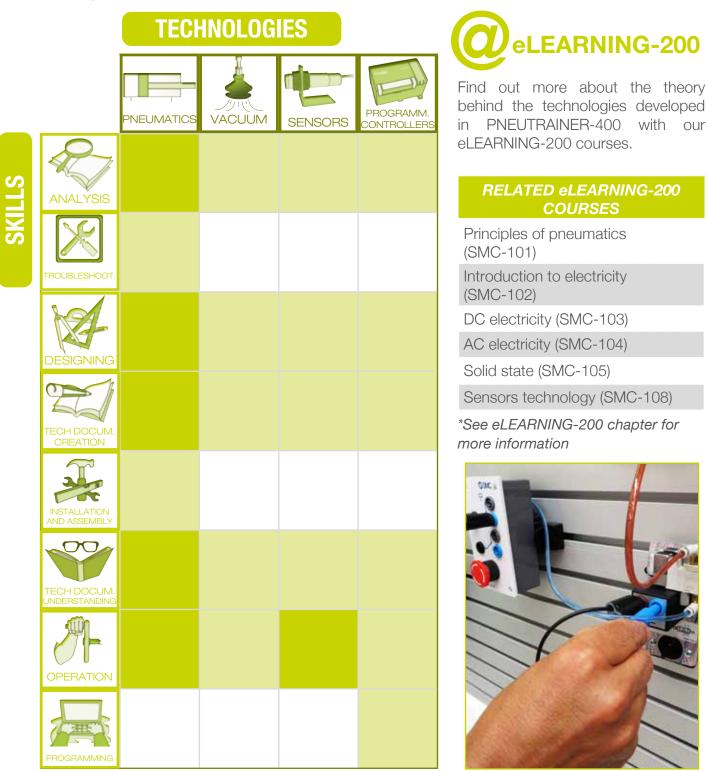
#### Kits 🖕

PNEUTRAINER-400 has 6 standard sets of components defined for training demands at different educational levels. Also, the user can configure personalised kits to meet their needs or to complement a previous purchase.

		CIFICATIONS
	STANDARD KTIS	
SAI4-2281	PNEU-401: Basic pneumatics kits	ATNLU COM
SAI4-2282	PNEU-402: Advanced pneumatics kits	metraining so
SAI4-2283	PNEU-403: Basic electro-pneumatics kits	WW SHI
SAI4-2284	PNEU-404: Advanced electro-pneumatics kits 🔨	The contract
SAI4-2285	PNEU-405: Pneumatics- electro-pneumatics kits	CANICAL DESC
SAI4-2286	PNEU-406: Proportional pneumatics kits	

#### PNEUTRAINER-400 - With this system you could...

PNEUTRAINER-400 comes up with different practical activities targeting skills in the technologies featuring in the table (below).



This shows how the PNEUTRAINER-400 is suitable to develop skills in the specific technology.

This shows that PNEUTRAINER-400 can help develop skills in the specific technology even though there are other more appropriate products in the range.

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## PNEUTRAINER-400 - Extra equipment

There are other products in the range to complement PNEUTRAINER-400.

### • VAC-200

The VAC-200 equipment is particularly designed to develop skills related to vacuum technology.

\*See VAC-200 chapter for more information.



### • autoSIM-200

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autoSIM-200 is software that can design and simulate pneumatic, electro-pneumatic, hydraulic circuits, etc. It is also used for programming them plus monitoring and control of pre-defined 2D and 3D models.

\*See autoSIM-200 chapter for more information.

## PNEUTRAINER-400 - Complete laboratory

Discover our proposal for laboratories and the best combination of the PNEUTRAINER-400 and other accessories in the chapter "Product packs".

## PNEUTRAINER-400 - Configuration

Getting the right PNEUTRAINER-400 configuration is as easy as:

## • Steps to follow

- 1.- Select the panel and the necessary extras.
- 2.- Select the chosen standard set or a personalised configuration.



3.- For a personalised configuration, select the references required.





## PNEUTRAINER-400 - Standard ktis

			PNEU KITS					
Ref.	Description	401	402	403	404	405	406	
	Air preparation							
SAI4-2091	Air cleaning unit with 3/2 distribution valve	1	1	1	1	1	1	
SAI4-2092	Distribution block	1	1	1	1	1	1	
SAI4-2005	Pressure regulator with pressure gauge	1	1	1	1	1	1	
SAI4-2004	1 MPa pressure gauge	1	2	1	1	1		
SAI4-2032	Soft start-up valve				1			
	Manual - mechanical valves							
SAI4-2015	3/2 NC valve, operated by push-button	2	2			2		
SAI4-2017	Double 3/2 NC valve, operated by a push-button		1					
SAI4-2018	3/2 NC/NO valve, operated by a push-button	1	1			1		
SAI4-2019	3/2 NC valve, operated by an emergency knob	1	1			1		
SAI4-2013	3/2 NC valve, operated by roller lever	2	4			2		
SAI4-2014	FC 3/2 NC valve. Operated by one-way roller lever	1	1			1		
	3/2 NC switch-operated double valve	1	1			1		
SAI4-2109	5/2 push-button valve		1					
	5/2 valve with 2-position selector	1	1			1		
	5/3 valve with selector		1					
	Air operated valves							
SAI4-2020	3/2 NC/NO, air operated single valve	1	1			1		
	3/2 NC convertible valve	1	1			1		
SAI4-2023	Air operated 5/2 single valve	1	1			1		
	Air operated 5/2 double valve	3	3			3		
	Block of $2 \times 5/2$ double valves + $1 \times 5/2$ single valve		1					
	Flow control equipment							
SAI4-2007	"OR" function	1	1			1		
	Double "OR" valve	1	1			1		
	"AND" function	1	1			1		
	Double "AND" valve		1					
SAI4-2031	Single direction speed controller (double)	2	2	2	2	2		
	Quick exhaust valve	1	1	_	_	1		
	Check valve		1					
	Speed controller with controlled check valve		2		2			
	Two-direction speed controller for single acting cylinder		1					
	Actuators							
SAI4-2027	Single acting cylinder	1	1	1	1	1		
	Double acting cylinder with rubber cushion	2	2	2	2	2		
	Double acting cylinder with adjustable air cushion	_	1	_	_	_		
	Mechanically coupled rodless cylinder		1					
	Cylinder with load		1		1			
	Stroke reading cylinder		1		1		1	
<i>S.</i> T <i>L</i> T <i>L</i> U	Pneumatics various							
SAI4-2029	Vacuum ejector with pad		1		1			
	Pressure indicator (reed)		1					
	Pressure vessel		1				1	
	Pulse counter for reading cylinder						1	
	Pneumatic counter		1				I	
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Field         Description         401         402         403         404         405         406           Solenoid valves          1         1         1         1         1           SAH-2050         5/2 longle solenoid valve         3         3         3         3           SAH-2056         5/2 single solenoid valve         2 </th <th></th> <th></th> <th colspan="6">PNEU KITS</th>			PNEU KITS					
SAH-2050       3/2 NC single solenoid valve       1       1       1         SAH-2111       3/2 double solenoid valve       2       2       2         SAH-2053       5/2 single solenoid valve       2       2       2         SAH-2054       5/2 single solenoid valve       1	Ref.	Description	401	402			405	406
SAH4-21113/2 double solenoid valve1SAH2-2055/2 single solenoid valve222SAH2-2055/2 double solenoid valve11SAH2-2055/2 single solenoid valve111SAH2-2055/2 double solenoid valves, 5/2 double + 1 single1111Control modules11		Solenoid valves						
SAH4-21113/2 double solenoid valve1SAH2-2055/2 single solenoid valve222SAH2-2055/2 double solenoid valve11SAH2-2055/2 single solenoid valve111SAH2-2055/2 double solenoid valves, 5/2 double + 1 single1111Control modules11	SAI4-2050	3/2 NC single solenoid valve			1	1	1	
SAM-2052       5/2 single solenoid valves       2       2       2         SAM-2054       5/3 closed-centre solenoid valves       1       1       1         SAM-2014       Block of 2 solenoid valves       5/2 double + 1 single       1						1		
SAIA-20525/2 single solenoid valves, 5/2 double + 1 single111SAIA-2014Block of 2 solenoid valves, 5/2 double + 1 single1111SAIA-2015Novers supply111111SAIA-2035ON/OFF switch11111111SAIA-2036Set of alectrical inputs (Button pad with 3 push-buttons)111 <t< td=""><td>SAI4-2053</td><td>5/2 double solenoid valve</td><td></td><td></td><td>3</td><td>3</td><td>3</td><td></td></t<>	SAI4-2053	5/2 double solenoid valve			3	3	3	
SAIA: 2024         S/3 closed-centre solenoid valves         1           Control modules         1         1         1         1         1           SAIA: 2014         Dicko of 2 solenoid valves, 5/2 double + 1 single         1         1         1         1           SAIA: 2035         Diver supply         1         1         1         1         1         1           SAIA: 2036         Diver supply         Sain All solenoid valves, 5/2 double + 1 single         1         1         1         1           SAIA: 2036         Set of 2 clinear (clinity, buzzer)         1         1         1         1         1           SAIA: 2040         Set of 2 linear relays         1         1         1         1         1           SAIA: 2040         Set of a distation switch         1         1         1         1         1         1           SAIA: 2043         Roed auto switch         2         2         2         2         2         2           SAIA: 2043         Roed auto switch         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1						2	2	
SAH2-114         Block of 2 solenoid values, 5/2 double + 1 single         1           SAI4-2005         Power supply         1         1         1         1         1           SAI4-2005         Power supply         1         1         1         1         1           SAI4-2005         Emergency stop knob (electrical)         1         1         1         1         1           SAI4-2005         Set of 8 lectrical inputs (Button pad with 3 push-buttons)         1         1         1         1         1           SAI4-2004         Set of 3 relays         1 <td< td=""><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td></td<>						1		
SAH-2056       Power supply       1       1       1       1       1         SAH-2035       Emergency stop knob (electrical)       1       1       1       1         SAH-2036       Set of electrical inputs (Button pad with 3 push-buttons)       1       1       1       1         SAH-2037       Indicators (plots, buzzer)       1       1       1       1       1         SAH-2040       Set of 2 inter relays       1       1       1       1       1         SAH-2043       Electrica outor       1       1       1       1       1         SAH-2043       Electrica outor       2       2       1       1       1       1         SAH-2043       Electrica outor       2       2       2       1						1		
SAIA-2035       ONVOFF switch       1         SAIA-2036       Set of electrical inputs (Button pad wilh 3 push-buttons)       1       1       1         SAIA-2036       Set of electrical inputs (Button pad wilh 3 push-buttons)       1       2       1         SAIA-2037       Inclicators (pilots, buzzer)       1       2       1       1         SAIA-2040       Set of 2 timer relays       1       1       1       1         SAIA-2047       Inclicators (pilots, buzzer)       1       1       1       1         SAIA-2049       Electrica distributor       1       1       1       1       1         SAIA-2048       Electricat distributor       2 <t< td=""><td></td><td>Control modules</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>		Control modules						
SAIA-2035       ONVOFF switch       1         SAIA-2036       Set of electrical inputs (Button pad wilh 3 push-buttons)       1       1       1         SAIA-2036       Set of electrical inputs (Button pad wilh 3 push-buttons)       1       2       1         SAIA-2037       Inclicators (pilots, buzzer)       1       2       1       1         SAIA-2040       Set of 2 timer relays       1       1       1       1         SAIA-2047       Inclicators (pilots, buzzer)       1       1       1       1         SAIA-2049       Electrica distributor       1       1       1       1       1         SAIA-2048       Electricat distributor       2 <t< td=""><td>SAI4-2056</td><td>Power supply</td><td></td><td></td><td>1</td><td>1</td><td>1</td><td>1</td></t<>	SAI4-2056	Power supply			1	1	1	1
SAI4-2034       Emergency stop knob (electrical)       1       1       1         SAI4-2038       Set of a relays       1       1       1         SAI4-2047       Indicators (pilots, buzzer)       1       1       1         SAI4-2048       Electric counter       1       1       1         SAI4-2049       Electric counter       1       1       1         SAI4-2049       Electric counter       1       1       1         SAI4-2049       Electric distributor       1       1       1       1         SAI4-2044       Inductive detector       2       2       2       2         SAI4-2045       Photoelectric detector       1       1       1       1       1         SAI4-2045       Photoelectric detector       1						1		
SAH2036       Set of alcetrical linputs (Button pad with 3 push-buttons)       1       1       1         SAH2037       Indicators (plots, buzzer)       1       1       1         SAH2040       Set of 3 relays       1       1       1         SAH2040       Set of 1 arelays       1       1       1         SAH2040       Set of 2 timer relays       1       1       1         SAH2040       Electrical distributor       1       1       1         SAH20403       Reed auto switch       4       4       4         SAH2041       Isolid state auto switch       2       2       2         SAH20420       Electrical end of stroke       2       2       2       2         SAH2042       Electrical end of stroke       2       2       2       2         SAH2042       Electrical end of stroke       2       2       2       2         SAH2042       Electrical end of stroke       1       1       1       1       1         SAH2043       Pressure switch, towards transistor       1       1       1       1       1         SAH2043       Pregrammable digital pressure switch, towards transistor       1       1       1       1<						1		
SAH2-2038       Set of 2 liner relays       1       1       1         SAH2-2040       Set of 2 liner relays       1       1       1         SAH2-2040       Set of 2 liner relays       1       1       1         SAH2-2040       Electrica distributor       1       1       1         SAH2-2043       Reed auto switch       2       2       2         SAH2-2043       Reed auto switch       2       2       2         SAH2-2044       Inductive detector       1       1       1         SAH2-2044       Inductive detector       1       1       1         SAH2-2045       Photoelectric detector       2       2       2         SAH2-2045       Electrical contact pressure switch       1       1       1         SAH2-2045       Prosume switch, towards transistor       1       1       1         SAH2-2045       Pressure switch, towards transistor       1       1       1       1         SAH2-2046       Vacuum pressure switch, towards transistor       1       1       1       1       1         SAH2-2047       Pressure switch, towards transistor       1       1       1       1       1       1         SAH2-					1	1	1	
SAH-2047       Indicators (pliots, buzzer)       1       1       1         SAH-2040       Set of 2 timor relays       1       1         SAH-2040       Electric counter       1       1         SAH-2043       Electric distributor       1       1       1         SAH-2043       Solid state auto switch       2       2         SAH-2044       Capacitive detector       1       1       1         SAH-2042       Electric all of stoke       2       2       2         SAH-2042       Electrical end of stoke       2       2       2         SAH-2041       Electrical contact pressure switch       1       1       1       1         SAH-2045       Pressure gue with electrical contact stransistor       1       1       1       1         SAH-2047       Pressure gue with electrical contact       1       1       1       1       1         SAH-2047       Pressure gue with electrical contact transistor       1       1       1       1       1         SAH-2047       Programmable digital pressure switch. Analog / digital outputs       1       1       1       1       1       1       1       1       1       1       1       1       1 </td <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>2</td> <td>1</td> <td></td>					1	2	1	
SAH2-2040       Set of 2 timer relays       1         SAH2-2048       Electrical distributor       1       1         SAH2-2048       Reed auto switch       4       4       4         SAH2-2048       Reed auto switch       2       2         SAH2-2044       Inductive detector       1       1         SAH2-2044       Capacitive detector       1       1         SAH2-2045       Photoelectric detector       1       1         SAH2-2044       Electrical contact pressure switch       1       1       1         SAH2-2045       Protosure gauge with electrical contact transistor       1       1       1         SAH2-2049       Pressure switch, towards transistor       1       1       1       1         SAH2-2049       Pressure switch, towards transistor       1       1       1       1       1         SAH2-2049       Programmable proportional electro-pneumatic transducer       1 </td <td></td> <td>,</td> <td></td> <td></td> <td>1</td> <td>1</td> <td>1</td> <td></td>		,			1	1	1	
SAI4-2048       Electrica distributor       1       1         SAI4-2049       Electrica distributor       4       4         SAI4-2049       Reed auto switch       2         SAI4-2042       Solid state auto switch       2         SAI4-2042       Capacitive detector       1         SAI4-2046       Capacitive detector       1         SAI4-2047       Photoelectric detector       1         SAI4-2048       Electrical end of stroke       2       2         PV - VP converters       1       1       1         SAI4-2041       Electrical contact pressure switch. Analog / digital outputs       1       1       1         SAI4-2047       Pressure gauge with electrical contact       1       1       1       1         SAI4-2049       Pressure gauge with electrical contact       1       1       1       1         SAI4-2049       Pressure gauge with electrical contact       1       1       1       1         SAI4-2049       Pressure gauge with electrical contact       1       1       1       1         SAI4-2049       Pregrammable digital pressure switch. Analog / digital outputs       1       1       1       1         SAI4-2005       Set of 10 on tibue tubing and						1		
SAI4-2049       Electrical distributor       1       1       1         SAI4-2043       Reed auto switch       4       4         SAI4-2124       Redicators switch       1       1         SAI4-2044       Inductive detector       1       1         SAI4-2044       Inductive detector       1       1         SAI4-2045       Capacitive detector       1       1         SAI4-2042       Electrical end of stroke       2       2       2         SAI4-2045       Photoelectric detector       1       1       1         SAI4-2045       Pressure switch, towards transistor       1       1       1         SAI4-2046       Vectorated pressure switch, towards transistor       1       1       1         SAI4-2049       Pressure sure switch, towards transistor       1       1       1       1         SAI4-2046       Vacuum pressure switch, towards transistor       1       1       1       1       1         SAI4-2040       Vacuum pressure switch, towards transistor       1       1       1       1       1         SAI4-2040       Vacuum pressure sensor       1       1       1       1       1       1         SAI4-2045       Se						1		
SAI4-2043       Reed auto switch       4       4       4         SAI4-2128       Solid state auto switch       2       2         SAI4-2044       Inductive detector       1       5         SAI4-2042       Electrical end of stroke       2       2       2         PV - V/P converters       1       1       1       1         SAI4-2044       Electrical contact pressure switch       1       1       1       1         SAI4-2047       Electrical contact pressure switch, towards transistor       1       1       1       1         SAI4-2049       Pressure gauge with electrical contact       1       1       1       1       1         SAI4-2098       Pressure gauge with, towards transistor       1					1	1	1	
SAI4-2123       Solid state auto switch       2         SAI4-2044       Inductive detector       1         SAI4-2046       Capacitive detector       1         SAI4-2047       Photoelectric detector       1         SAI4-2048       Photoelectric detector       2       2         PW - V/P converters       2       2       2         SAI4-2047       Electrical contact pressure switch       1       1       1         SAI4-2048       Pressure gauge with electrical contact       1       1       1         SAI4-2049       Pressure gauge with all pressure switch. Analog / digital outputs       1       1       1         SAI4-2049       Programmable digital pressure switch. towards transistor       1       1       1       1         SAI4-2049       Programmable proportional electro-pneumatic transducer       1       1       1       1       1         SAI4-2105       Digital Pressure Display for analog sensor       1								
SAI4-2044       Inductive detector       1         SAI4-2045       Capacitive detector       1         SAI4-2045       Electrical end of stroke       2       2       2         PV - V/P converters       1       1       1       1         SAI4-2047       Electrical contact pressure switch       1       1       1       1         SAI4-2048       Pressure switch, towards transistor       1       1       1       1         SAI4-2049       Pressure switch, towards transistor       1       1       1       1         SAI4-2049       Programmable digital pressure switch, towards transistor       1       1       1       1         SAI4-2049       Programmable digital pressure switch, towards transistor       1       1       1       1         SAI4-2040       Analog pressure sensor       1<					4	-	4	
SAI4-2046       Capacitive detector       1         SAI4-2047       Photoelectric detector       1         SAI4-2042       Electrical end of stroke       2       2         PV - V/P converters       1       1       1         SAI4-2041       Electrical contact pressure switch       1       1       1         SAI4-2043       Pressure gauge with electrical contact       1       1       1         SAI4-2049       Pregrammable digital pressure switch, Analog / digital outputs       1       1       1         SAI4-2099       Programmable proportional electro-pneumatic transducer       1       1       1       1         SAI4-2094       Analog pressure sensor       1       1       1       1       1         SAI4-2095       Digital Pressure Display for analog sensor       1						1		
SAI4-2045       Photoelectric detector       1         SAI4-2042       Electrical end of stroke       2       2         PVV - VIP converters       1       1       1         SAI4-2025       Pressure switch, towards transistor       1       1       1         SAI4-2036       Pressure switch, towards transistor       1       1       1         SAI4-2037       Programmable digital pressure switch. Analog / digital outputs       1       1       1         SAI4-2039       Programmable digital pressure switch. Analog / digital outputs       1       1       1         SAI4-2039       Programmable digital pressure switch. Analog / digital outputs       1       1       1         SAI4-2039       Programmable groportional electro-pneumatic transducer       1       1       1       1         SAI4-2030       Digital Pressure Display for analog sensor       1       1       1       1       1       1         SAI2057       Set of 20m of blue tubing and 20m of flexible 4 mm white tubing.       1						1		
SAI4-2042       Electrical end of stroke       2       2       2         PV/ V/P converters       5         SAI4-2041       Electrical contact pressure switch       1       1       1         SAI4-2028       Pressure switch, towards transistor       1       1       1         SAI4-2029       Pressure switch, towards transistor       1       1       1         SAI4-2029       Programmable digital pressure switch. Analog / digital outputs       1       1       1         SAI4-2029       Programmable proportional electro-pneumatic transducer       1       1       1       1         SAI4-2105       Digital Pressure Display for analog sensor       -       1								
P/V - V/P converters           SAI4-2041         Electrical contact pressure switch         1         1         1           SAI4-2039         Pressure gauge with electrical contact         1         1         1           SAI4-2039         Pressure gauge with electrical contact         1         1         1           SAI4-2037         Programmable digital pressure switch. Analog / digital outputs         1         1         1           SAI4-2039         Programmable proportional electro-pneumatic transducer         1         1         1           SAI4-2039         Programmable proportional electro-pneumatic transducer         1         1         1           SAI4-2035         Digital Pressure Display for analog sensor         1         1         1         1         1           SAI2057         Set of 20 m of blue tubing and 20m of flexible 4 mm white tubing.         1 <td></td> <td></td> <td></td> <td></td> <td>2</td> <td></td> <td>0</td> <td></td>					2		0	
SAI4-2041       Electrical contact pressure switch, towards transistor       1       1       1         SAI4-2035       Pressure switch, towards transistor       1       1       1         SAI4-2037       Pressure gauge with electrical contact       1       1       1         SAI4-2037       Pregrammable digital pressure switch, halog / digital outputs       1       1       1         SAI4-2039       Programmable proportional electro-pneumatic transducer       1       1       1         SAI4-2104       Analog pressure sensor       1 <td< td=""><td>3A14-2042</td><td></td><td></td><td></td><td>2</td><td>2</td><td>2</td><td></td></td<>	3A14-2042				2	2	2	
SAI4-2095       Pressure switch, towards transistor       1       1       1         SAI4-2098       Pressure gauge with electrical contact       1       1       1         SAI4-2097       Programmable digital pressure switch. Analog / digital outputs       1       1       1         SAI4-2096       Vacuum pressure switch, towards transistor       1       1       1       1         SAI4-2097       Programmable proportional electro-pneumatic transducer       1	SAIA 2041				-1	-1	-1	
SAI4-2098       Pressure gauge with electrical contact       1       1       1       1         SAI4-2097       Programmable digital pressure switch. Analog / digital outputs       1       1       1         SAI4-2098       Vacuum pressure switch, towards transistor       1       1       1         SAI4-2099       Programmable proportional electro-pneumatic transducer       1       1       1         SAI4-2105       Digital Pressure Display for analog sensor       1					I	-1	I	
SAI4-2097       Programmable digital pressure switch, Analog / digital outputs       1       1         SAI4-2096       Vacuum pressure switch, towards transistor       1       1         SAI4-2099       Programmable proportional electro-pneumatic transducer       1       1         SAI4-2104       Analog pressure sensor       1       1       1       1         SAI4-2105       Digital Pressure Display for analog sensor       1 <td< td=""><td></td><td></td><td></td><td></td><td>-1</td><td>1</td><td>-</td><td></td></td<>					-1	1	-	
SAI4-2096       Vacuum pressure switch, towards transistor       1         SAI4-2099       Programmable proportional electro-pneumatic transducer       1         SAI4-2104       Analog pressure sensor       1         SAI4-2105       Digital Pressure Display for analog sensor       1         SAI2057       Set of 20m of blue tubing and 20m of flexible 4 mm white tubing.       1 <td< td=""><td></td><td></td><td></td><td></td><td>I</td><td>-1</td><td>I</td><td>1</td></td<>					I	-1	I	1
SAI4-2099       Programmable proportional electro-pneumatic transducer       1         SAI4-2104       Analog pressure sensor       1         SAI4-2105       Digital Pressure Display for analog sensor       1         Accessories         SAI2057         Set of 20m of blue tubing and 20m of flexible 4 mm white tubing.       1						-1		I
SAI4-2104       Analog pressure sensor       1         SAI4-2105       Digital Pressure Display for analog sensor       1         Accessories       1         SAI2057       Set of 20m of blue tubing and 20m of flexible 4 mm white tubing.       1       1       1       1       1       1         SAI2058       Set of 10 "T" fittings       1 <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td>-1</td>						1		-1
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SAI2059       Set of 5 plugs, 1/8"       1				-1	-1	-1		
SAI2060Set of 10 x 4mm plastic plugs11				-1	-1	-1		
SAI2132Set of 10 "Y" fittings111 </td <td></td> <td></td> <td>-1</td> <td></td> <td></td> <td></td> <td></td> <td></td>			-1					
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	SAI2070	CD-ROM, Pneumatic slides	1	1	1	1	1	1

\Lambda DON'T FORGET TO ADD AN ASSEMBLY PANEL AND EXTRAS							
SAI2068	Schematic clip device	SAI2028	Support bracket set				
SAI2064	Vertical mounting panel for 2 work positions	SAI2088	Silent compressor 230VAC	SIFICATIONS			
SAI2074	Drawer unit for rolling table with lock	SAI2520	Silent compressor 110VAC	181			
SAI2066	Drawer unit for rolling table without lock	SAI2080	Horizontal mounting panel	LUNNLU			
SAI2065	Rolling table with twin-post	SAI4-2089	Cable holder fitting	Dunin smotraining			



**PNEUTRAINER-400** 



## PNEUTRAINER-400 - Customized compositions

All the available pneumatic and electro-pneumatic components are described below, ordered by category.

#### Assembly panels and accessories

Based on an anodized extruded aluminium structure, we can offer a number of solutions for panels to carry out the practial activities proposed for the various configurations.

• Option A - Horizontal mounting panel

SAI2080 - Horizontal mounting panel

External dimensions: 700x560x25mm\*. It is supported on non-slip legs. Can be converted into a vertical panel using a support bracket set (see accessories).

\*Other dimensions available on request.

• Option B - Vertical mounting panel for 2 work posts

#### SAI2064 - Vertical mounting panel for 2 work positions

External dimensions: 1150x760x410mm\*. Allows work to be carried out on both sides, optimizing investment and space.

\*Other dimensions available on request.

#### • Option C - Double sided rolling table



-The entire rolling frame system may be disassembled for transportation.

- The vertical panel means you can work on both sides.
- Panel dimensions: 1150x760x25mm
- It has a laminated top for horizontal work, 1200x800mm.
- The lower section features a 1200x600mm metal shelf supporting the component storage drawers, the silent compressor, etc.
- 4 high-load wheel support, 2 with brake and 2 without.
- Total dimensions: 1200x800x1700mm.



Accessories



With non-slip legs, allowing the user to convert the horizontal mounting panel into a vertical panel.

#### Storage drawer blocks for rolling table

SAI2066 - without lock SAI2074 - with lock

-Compact 4-drawer block with slide guides to house the component trays.

- External dimensions: 500x725x650mm.



SAI2028 - Support bracket set



- Model ICO-P50
- -Two-phase power supply.
- Flow rate: 50l/min.
- Maximum pressure: 0,8MPa
- Low noise level: 40dB
- -Reservoir: 9 I.
- -Weight: 21kg.
- \*Other models available on request.

#### SAI2068 - Schematic clip device

Allows schematics to be attached in DIN-A4 format on the panel.





SAI4-2089 - Cable holder fitting

This supports orderly storage of connection cables.

Silent compressor

SAI2088 - Power supply 230VAC SAI2520 - Power supply 110VAC

#### Air preparation

#### SAI4-2090 - Air cleaning unit

- Consisting of a filter, a regulator, and a 1 MPa pressure gau
- 5µm filtering.
  - Possibility of vertical and horizontal positioning.

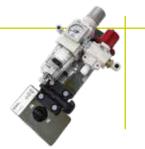
PNEUTRAINER-400

#### SAI4-2091 - Air cleaning unit with 3/2 distribution valve

- -Consisting of a filter, a regulator, and a 1 MPa pressure gauge.

- Input and output prepared for 6mm tube.

- 5µm filtering.
- Includes a 3/2 discharge valve with silencer for connection and disconnection of the rest of the circuit.
- Option of vertical and horizontal positioning.





#### SAI4-2001 - Air cleaning unit with lubricator

- Consisting of filter, regulator, lubricator and 1 MPa pressure gauge.
- 5µm filtering.
- Possibility of vertical and horizontal positioning.
- Input for a 6mm tube, output for a 4 mm tube.

#### SAI4-2092 - Distribution block



- Includes 8-outlet distribution block, one-touch fittings and non-
- return system.
- Direct coupling to the air cleaning unit.

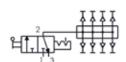




#### SAI4-2002 -Distribution block with 3/2 distribution valve

-8-outlet distribution block, one-touch fittings and nonreturn system.

- Includes slide discharge valve.
- Direct coupling to the maintenance unit.
- Input for a 6mm tube, output for a 4 mm tube.







#### SAI4-2005 - Pressure regulator with pressure gauge

- Operating pressure 0-1 MPa.
  - Includes double-scale pressure gauge (Mpa and psi).













#### SAI4-2094 - Vacuum pressure gauge



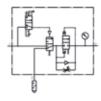
- Pressure range (-0,1 MPa 0MPa).
- Double scale.





#### SAI4-2032 - Soft start-up valve

- Includes a valve which allows pressure to be implemented gradually.



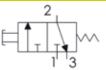


## Manual - mechanical valves

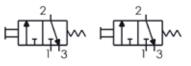


#### SAI4-2015 - 3/2 NC valve, operated by push-button

- Industrial grade push-button, normally in closed position, spring-return.



#### SAI4-2017 - Double 3/2 NC valve, operated by a push-button



-Includes two 3/2 port industry grade pushbuttons.

- Red and black colour action.

-Spring-return.



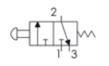


#### SAI4-2018 - 3/2 NC/NO valve, operated by a push-button

Includes a 3/2 port valve, which the user can convert from normally-open to normally-closed, as required.
Spring-return.



#### SAI4-2019 - 3/2 NC valve, operated by an emergency knob



Driven by approved emergency-type knob.Spring-return.

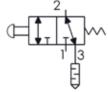




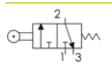
#### SAI4-2108 - 3/2 NC/NO valve, operated by a knob

Includes a 3/2 port valve, which the user can convert from normally-open to normally-closed, as required.
Approved emergency knob with spring-return action.

58



#### SAI4-2013 - 3/2 NC valve, operated by roller lever

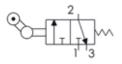


- Mechanical roller action.

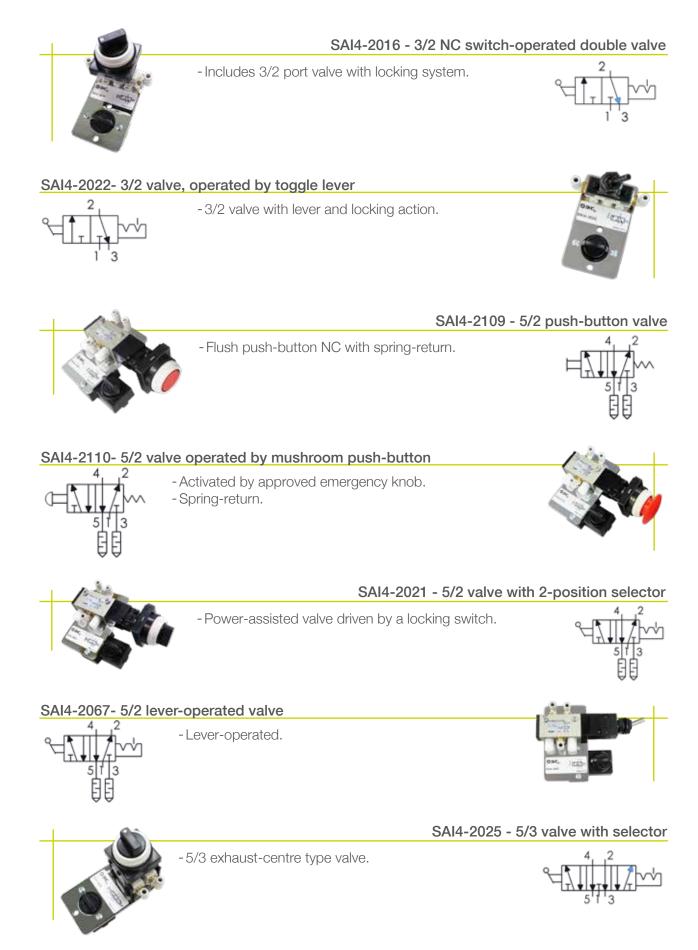




SAI4-2014 - FC 3/2 NC valve. Operated by one-way roller lever





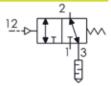


Air operated valves

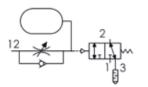


SAI4-2020 - 3/2 NC/NO, air operated single valve

-Includes a 3/2 valve, which the user can convert from NO to NC, as required. Spring return. - Manual over-ride.



#### SAI4-2010 - 3/2 NC convertible valve



- Basic timer, convertible from NC to NO. - Timing range, 0 to 5s.

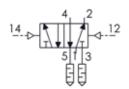




#### SAI4-2023 - Air operated 5/2 single valve

- Spring-return pneumatic pilot valve. - Possibility of manual operation.

#### SAI4-2024 - Air operated 5/2 double valve



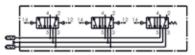
- Double piloting with memory function. - Possibility of manual operation.



#### SAI4-2107 - Block of 2 x 5/2 double valves + 1 x 5/2 single valve

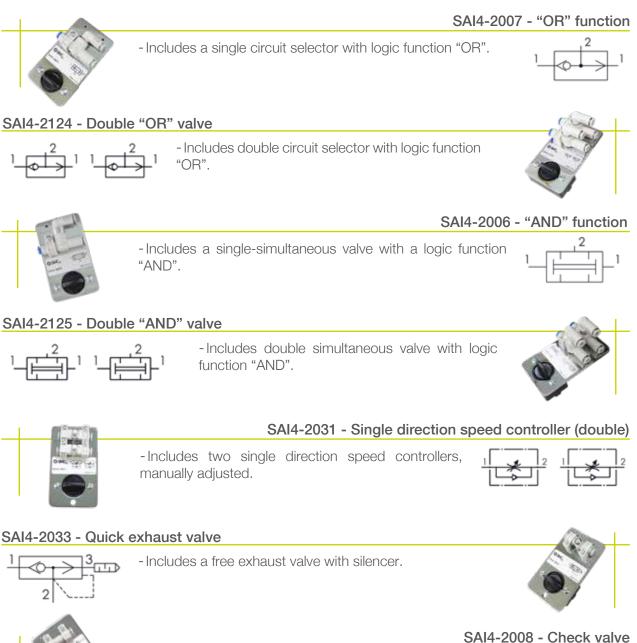
- Three valves mounted on a stainless steel plate with a system for attachment to the panel and ISO symbols.

- Possibility of manual operation.



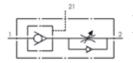


## Flow control equipment





#### SAI4-2126 - Speed controller with controlled check valve



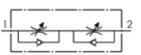
Integrated controlled non-return valve and speed controller.Allows temporary intermediate lock-out and control of speed.





#### SAI4-2030 - Two-direction speed controller for single acting cylinder

- Includes two-direction speed controller for single acting cylinders.





## Actuators

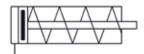


- Rod normally retracted.

- Stainless steel construction Diameter 20mm. Stroke 50mm.

- Rubber cushion.

#### SAI4-2027 - Single acting cylinder



#### SAI4-2026 - Double acting cylinder with rubber cushion



- Stainless steel construction. Exterior diameter 20mm. Stroke 100mm.



- Rail to house end-of-stroke auto switches.

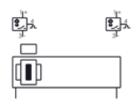
#### SAI4-2071 - Double acting cylinder with adjustable air cushion



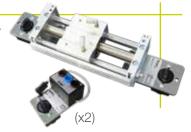
- Diameter 20mm. Stroke 100mm. - Adjustable air cushion with built-in rail for magnetic detection.



#### SAI4-2117 - Magnetically coupled rodless cylinder



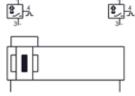
- Stainless steel construction. Exterior diameter 15mm. Stroke 100mm.
- Magnetic coupling with high holding force.
- Speed 50 to 400mm/s.
- Includes 2 solid state magnetic sensors.





#### SAI4-2118 - Mechanically coupled rodless cylinder

- Exterior diameter 16mm. Stroke 100mm. Mechanicallydriven.
- Speed 100 to 150mm/s.
- Option to mount detectors on either side of the casing.
- Includes 2 solid state, 3-wire sensors.







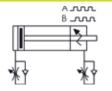
- -Stroke: 100mm.
- Rod with 4 support points on friction bushing.
- Speed 50 to 500mm/s.
- Rubber cushion.
- Includes 2 solid state magnetic sensors.



SAI4-2119 - Dual rod cylinder



#### SAI4-2120 - Stroke reading cylinder

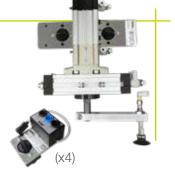


- Diameter 20mm. Stroke 50mm.
- Resolution: 0,1mm
- Measurement available for entire length of stroke.
- Direct connection to counter.
- Possibility of PLC connection.
- Incorporates two flow regulators.
- \* Counter not included SAI4-2121.

#### SAI4-2122 - Linear / rotary actuator with vacuum pad

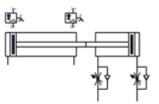


- Linear cylinder and rotating actuator combined with vacuum pad terminal.
- Linear and rotating movement, independent or simultaneous.
- Diameter 32mm, stroke 25mm.
- Angle of rotation: 180°.
- Incorporates 4 flow regulators.
- Includes 4 solid state magnetic sensors.



#### SAI4-2123 - Cylinder with load

- Tw a loa - Bo - Us be v
  - Two cylinders, one actuator and another as a load.
    - Bore 16 and 20mm, stroke 50mm.
    - -Using flow regulators the load applied can be varied.
    - Includes two reed type magnetic sensors.



## Pneumatics various



- Automatic or manual preselection.
- Pneumatic signal once the amount of pulses selected has been reached.





#### SAI4-2011 - Pneumatic sequence controller

- Pneumatic sequence controller module, in four stages, including the "AND" / "OR" functions required.

#### SAI4-2121 - Pulse counter for reading cylinder

- Counter with 3 preselection points.
- 5-digit LCD with rear lighting.
- Power supply 24Vdc.
- PNP control output, open collector.
- Maximum count speed: 20KHz.





• The attachment system to the mounting panel allows a positional change to allow the user to work transverselly instead of longitudinally, for case of cylinders and also ends of stroke.



#### Solenoid valves

#### SAI4-2050 - 3/2 NC single solenoid valve

- -Low consumption: 0,55W.
- LED display and surge absorber.
- Spring and air reset.
- Normally closed.
- Power-assisted system.



#### SAI4-2051 - 3/2 NO single solenoid valve

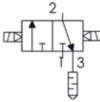
- Low consumption: 0,55W.
- LED display and surge absorber.
- Spring and air reset.
- Normally open.
- Power-assisted system.





- Low consumption: 0,55W.
- LED display and surge absorber.
- Spring and air reset.
- Power-assisted system.

#### SAI4-2111 - 3/2 double solenoid valve



#### SAI4-2052 - 5/2 single solenoid valve

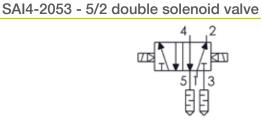
- Low consumption: 0,55W.
- LED display and surge absorber.
- Spring and air reset.
- Power-assisted system.





5113

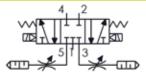
- Low consumption: 0,55W.
- LED display and surge absorber.
- Spring and air reset.
- Power-assisted system.





## Solenoid valves

#### SAI4-2054 - 5/3 closed-centre solenoid valve



- LED display and surge absorber.
- 3 spring centring positions.

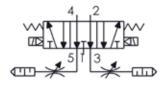
- Low consumption: 0,55W.

- Power-assisted system.
- Flow restrictors with silencer.

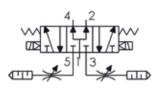


#### SAI4-2113 - 5/3 solenoid valve, exhaust centres

- Low consumption: 0,55W.
- LED display and surge absorber.
- Three positions with spring centring.
- Power-assisted system.
- Flow restrictors with silencer.



#### SAI4-2112 - 5/3 solenoid pressure valve

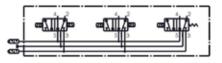


- -Low consumption: 0,55W.
- LED display and surge absorber.
- Three positions with spring centring.
- Power-assisted system.
- Flow restrictors with silencer.



#### SAI4-2114 - Block of 2 solenoid valves, 5/2 double + 1 single

- Low consumption: 0,55W.
- LED display and surge absorber.
- Spring and air reset.
- Power-assisted system.
- -3-solenoid valve assembly on multiple base plate.





## Control modules



- Input voltage: 100÷240VAC
- Output: 24VDC / 2,5A.
- Protection against short circuits.
- Input switch and LED display.
- Supply cable included.

#### SAI4-2035 - ON/OFF switch

- 4 mm safety terminals for use with quick connection wiring.
- Includes latching pushbutton.
- Two independent contacts, NO and NC.





#### SAI4-2034 - Emergency stop knob (electrical)

- -4 mm safety terminals for use with quick connection wiring.
- Includes double contact, NO and NC.

#### SAI4-2036 - Set of electrical inputs (Button pad with 3 push-buttons)

- -4 mm safety terminals for use with quick connection wiring.
- Two push-buttons and a latching push-button.
- Independent light indicator.
- Two push-button switch contacts.



SAI4-2038 - Set of 3 relays



Includes three relays with 24V coil and 4 switchable contacts.
Relay-active LED.

- 4 mm safety terminals for use with quick connection wiring.

#### SAI4-2037 - Relay, 3 switched contacts

- Includes relay with 24V coil and 4 switched contacts.
- LED display of active relay.





- SAI4-2039 Timed relay closure
- Includes disconnection timer relay.
- LED display showing timer status.
- -Time programmable between 0,1s and 1h.
- 4 mm safety terminals for quick connection wiring.

## SAI4-2056 - Power supply

## Control modules



#### SAI4-2047 - Indicators (pilots, buzzer)

- Includes 8 pilot lights and a buzzer.
- Supplementary sockets for power distribution.
- 4 mm safety female sockets for quick connection wiring.

#### SAI4-2040 - Set of 2 timer relays

- Includes two timer relays, one for connection and the other for disconnection.

- -24V coil, with switch contact.
- LED display of timer status.
- -Time programmable between 0,1s and 1h.



#### SAI4-2048 - Electric counter

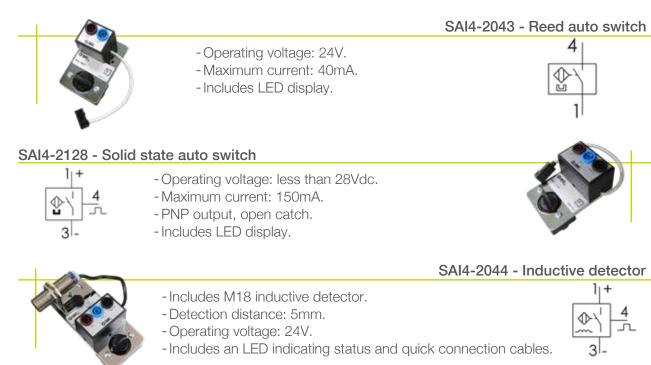


- Power supply: 24V.
- Electromechanical preselection.
- Manual or electrical reset.
- Switch contact.
- It has 4 mm safety female sockets for quick connection wiring.

#### SAI4-2049 - Electrical distributor

It has 4 blocks of 4 safety female sockets of 4 mm, interconnected together.This allows the user to carry out simple interconnections for complex circuits on different parts of the panel.









#### SAI4-2045 - Photoelectric detector

- Includes M18 reflection photoelectric detector.
- 3-
- Detection distance: 600mm.
- Status display LED.
- Operating voltage: 24V.



2

## SAI4-2042 - Electrical end of stroke

- Includes roller-driven end of stroke with switchable electric contact.

#### SAI2143-14 - MicroPLC

- Module for table mounting or panel, including the Alpha2 AL2-24MR-D controller (15 inputs and 9 outputs to relay).
- Includes simulation of analog / digital inputs.
- Includes 24Vdc power supply.
- Programming software and instructions manual.
- Includes LED output activation indicator.
- Power supply: 100-240Vac.
- Built-in power cable.

# Benchtop PLC module\*



#### SAI9367 - Benchtop Siemens PLC module

-Benchtop module or for panel which includes a Siemens S7-1200 (1212C CPU) PLC with 8 digital inputs, 6 digital outputs to relay and 2 analogue inputs.

#### SAI9121 - Benchtop Allen Bradley PLC module

- Benchtop module or for panel which includes an Allen Bradley Micrologix 1100 PLC with 10 digital inputs, 6 digital outputs to relay and 2 analogue inputs.

- All the inputs and outputs are accessible by female quick connection sockets for cables with 4 mm safety terminals.

- Includes simulation of analogue and digital inputs by potentiometers and switches.
- Includes LED output activation indicator.
- Includes 24Vdc power supply.
- Power supply: 100-240Vac.
- \* Programming tools not included. See section "Programming tools".
- \* Consult for other PLC brands.





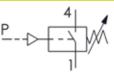


## P/V - V/P converters

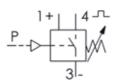


#### SAI4-2041 - Electrical contact pressure switch

- Includes pneumatic-electrical converter.
- -0-0,8MPa adjustable, with pressure indicator display.



#### SAI4-2095 - Pressure switch, towards transistor



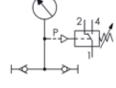
- PNP output with built-in LED display. - Operating voltage: 12-24Vdc.



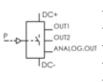


#### SAI4-2098 - Pressure gauge with electrical contact

- Pressure switch function included in a pressure gauge.
- Pressure range: 0 to 1 MPa.
- Ideal for checking in-line pressure.



#### SAI4-2097 - Programmable digital pressure switch. Analog / digital outputs



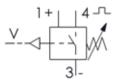
- Pressure indicator display of 3 1/2 digits.
- Operation indicator gauge.
- ANALOG.OUT Adjustment of positive and vacuum pressure.
  - Power supply between 12 and 24Vdc.
  - Double PNP output in open catch, plus analog output.



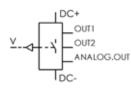


#### SAI4-2096 - Vacuum pressure switch, towards transistor

- Pressure range adjustment -0,1 to 0 MPa.
- PNP output



#### SAI4-2072 - Programmable digital vacuum pressure switch. Analog / digital outputs



- Operating voltage: 24V.
- Consumption: 45mA.
- Pressure range: -1 to 0,1 MPa.



- Three numerical digits.
- PNP output with snap connection cables.

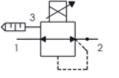




#### SAI4-2099 - Programmable proportional electro-pneumatic transducer

- Proportional traslances, adjustable pressure and programmable.
- 3-digit display gauge.
- Input code: 4-20mA.
- Analogic output signal: 1-5V.

#### SAI4-2100 - Proportional pressure valve



- Pressure adjustment in accordance with analog code.
- Connectable to control amplification card.
- Operating pressure: 0-1 MPa.



- SAI4-2101 Proportional flow rate valve
- Pressure adjustment in accordance with analog code.
- Connectable to control amplification card.
- Operating pressure; 0-0,1MPa.

#### SAI4-2102 - Amplifier card for proportional valve

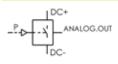
- Adjustment of ZERO and GAIN on the proportional valve.
- Allows control of proportional valves by analog code, 0 to 5Vdc.
- Power supply 24Vdc.





- SAI4-2103 Amplification card with PID regulator - Adjustment of ZERO and GAIN for the proportional valve.
- Allows control of proportional valves by an analog signal, 0 to 5Vdc.
- Power supply 24Vdc.
- Includes anomaly-detection system and feed-back circuit for sensor.

#### SAI4-2104 - Analog pressure sensor



- Pressure range: 0 to 1 MPa.
- Supply voltage: 12 to 24Vdc.







- SAI4-2105 Digital Pressure Display for analog sensor
- Digital display of pressure for 7 types of units, 3-digit display.
- Display of absolute pressure.
- Programming of cut-off pressure.
- Supply voltage: 12 to 24Vdc.
- Number of outlets: 2 channels x 2 outlets.





## Accessories



#### SAI2057 - Set of 20m of blue tubing and 20m of flexible 4 mm white tubing

- Polyurethane tube, exterior diameter 4mm, two-tone colour, for connections on pneumatic circuits.

\* SAI2307 - 10m black piping with outer diameter of 6 mm.

#### SAI2058 - Set of 10 "T" fittings

- Set of 10 one-touch fittings for 4mm tubes.



- Includes a 5-plug set for pressure outputs of 1/8".

#### SAI2060 - Set of 10 x 4mm plastic plugs

- Tool for plugging pressure outlets in 4mm tube.



- Set of 10 one-touch fittings for 4mm tubes.

#### TK-3 - Tube-cutter

- Tool for clean cuts, perpendicular to the length of the tube.



#### SAI4-2055 - Set of connection cables

(x10)

SAI2059 - Set of 5 plugs, 1/8"

SAI2132 - Set of 10 "Y" fittings

- Includes 30 safety quick connecting cable of 4 mm in different colours and lengths:
  50 cm cables: brown (x6), blue (x6) and black (x3).
  - 10 cm cables: brown (x6), blue (x6) and black (x3).

#### Boxes containing components

SAI4-2076 for PNEU-401 SAI4-2078 for PNEU-402 SAI4-2077 for PNEU-403 SAI4-2079 for PNEU-404 SAI4-2062 for PNEU-405 SAI4-2602 for PNEU-406 - Boxes in Eurobox format allow orderly storage of components.

- Includes printed trays with the references and locations for the components. Incorporates component anchoring system that facilitates their distribution and control.

- Allows extension of additional trays and boxes.



#### Trays containing components SAI4-2133 / SAI4-2134 / SAI4-2135

#### TG-1 - Tube-extractor

- Tool for an easy and quick extraction of the pipe (4 and 6mm).





#### Set of electric connector adaptors

#### SAI2819 - Set of 30 adaptors from 2 to 4 mm. SAI2820 - Set of 30 adaptors from 4 to 2 mm.

- Each set includes 30 adaptors for electrical connectors in different colours: red (x12), blue (x12) and black (x6).

### Didactic support

SMC INTERNATIONAL TRAINING bases the design of its products on the model involving "Development of Competence", and so, in addition to its hardware resources, our company offers a series of teachware supplements for comprehensive training in these disciplines, in order to attain the skills described.



## - It includes:

- \* Unit specifications.
- \*Operations manual.
- \*Technical dossiers for all components.
- \*Student dossiers with pneumatic electropneumatic activities proposed.
- \*Teacher's dossiers with solutions for the activities provided for the student.



SAI2070 - CD-ROM, Pneumatic slides

SAI2061 - Set of manuals and documentation

- Includes a set of slides in "Power Point" format organised into chapters, which can be used to support the teacher.

#### SAI2273 - Pneumatic overheads file

- Contains acetate transparencies with diagrams, calculation table, etc., and also sectional pneumatic components.





SAI2137 - CD-ROM for computer-assisted teaching of Pneumatics / Electropneumatics and PLC

- Self-teaching CD-ROM courses. \* Available in English.

PNEUTRAINER-400