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MI002561

Seneca Z-PC Line module: **Z-D-IO**

The Z-D-IO module acquires up to 6 single-ended digital signals (IN1...IN6) and controls up to 2 relay digital signals (OUT1 and OUT2). It also allows to perform three alternative functioning modalities: pneumatic valve command modality, motor control modality, motorized valve command modality.

General characteristics

- > It is possible to choose the Z-D-IO functioning modality by Dip-Switches
- > Internal logic to control the motors, pneumatic valve, motorized valve
- > Configuration of the module (node) address and baud-rate by Dip-Switches
- It is possible to add/remove the module to/from RS485-bus without disconnecting the communication or power supply
- > It is possible to switch automatically RS485 to RS232 or vice versa

Features

INPUT	
Number	6
Туре	REED, PROXIMITY PNP, NPN, contact, etc
Protection	This module provides inputs and power supply (Vaux) protection against the overvoltage surge transient by transient suppressor TVS (600W/ms)
Sensor=closed	The sensor is detected «closed» if: acquired signal voltage >12 Vdc and acquired signal current > 3 mA. Minimum pulse width: 20ms
Sensor=open	The sensor is detected «open» if: acquired signal voltage <10 Vdc and acquired signal current < 2 mA
Discrimination limits	According to IEC1131.2 type 1
Internal supply Vaux	The #1 screw terminal: powers 24V with reference to a internal ground (if J1 jumper is in "Int")
OUTPUT	
Number	2
Туре	Relays SPST (Single Pole Single Throw) normally open with common contact
Max current through screw terminals	Screw terminals 10,11: 2A _{AC1} with 250Vac
Max relay switching frequency	6 cycles/min(with resistive load); 1200 cycles/min(with no load)
Pick-up relay voltage	18V
Drop-out relay voltage	2.4V
No-load adsorbed	9mA
current by a relay	
Relay response time	5/2ms
CONNECTIONS	
RS485 interface	IDC10 connector
ISOLATIONS	
	1500Vac isolations between: power supply, ModBUS RS485, input. 3750Vac isolations between: output and other parts



POWER SUPPLY	
Supply voltage	10 – 40 Vdc or 19 – 28 Vac (50Hz - 60Hz)
Power	Max: 2.5W (@10Vdc)
consumption	

The power supply transformer necessary to supply the module must comply with EN60742 (Isolated transformers and safety transformers requirements). To protect the power supply, it is recommended to install a fuse.

Functioning

I/O MODALITY

I/O functioning modality allows to have 6 digital inputs and 2 relay digital outputs.

FU	FUNCTIONING MODALITY (Dip-Switches: SW2)									
1	2	3	4	Meaning	leaning					
				I/O modality						
IN	PUT									
Sc	rew	Μ	eanin	g	Default					
ter	minals	5								
4-1	1	In	put 1		Normally open					
5-1	1	In	put 2		Normally open					
6-1	1	In	put 3		Normally open					
7-1	1	In	put 4		Normally open					
8-1	1	In	put 5		Normally open					
9-1	1	In	Input 6 Normally open							
οι	OUTPUT									
Sc	rew	Μ	eanin	g	Default					
ter	minals	5								
10	-12	0	utput	1	Normally no-excited					
11	-12	0	Output 2 Normally no-excited							

To set Z-D-IO module it is necessary open the lateral panel of module case to modify Jumpers position.

In the following figure are shown the J1, J2, J3, J4 jumpers in default position: J1 in "Int" position, J2 in "NO" position, J3 in "NO" position, J4 in "OPEN" position.



It is possible to connect the following type of sensors: REED, PROXIMITY PNP, NPN, contact, etc... To supply these inputs, a internal supply is available (if Jumper J1 is in "Int" position).

If jumper J1 is in "Int" position, input screw terminals configuration is shown in the following figure.



If jumper J1 is in "Ext" position, input screw terminals configuration is shown in the following figure. In this configuration, **a external voltage supply is necessary**.



To configure output1 and output2, set J2 and J3 jumpers.



MOTOR CONTROL MODALITY

Before using Z-D-IO in motor control modality, set motor control delay (through reg.40005 or Dip-Switches SW2-3 and SW2-4).

FU	NCTI	ONIN	g Mo	DALITY (Dip-Switches: SW2)			
1	2	3	4	Meaning			
•				Motor command modality			
INF	PUT						
Sc	rew	Μ	eanin	g	Default		
ter	minals	5		-			
4-1		Lo	ocal/R	lemote	Normally open		
5-1		S	tart		Normally open		
6-1		S	top		Normally closed		
7-1		T	herma	al protection	Normally closed		
8-1		F	Feedback Norma				
9-1		S	Switch off alarm Normally open				
OU	JTPUI	Γ					
Sc	rew	M	eanin	g	Default		
ter	minals	6					
10-	-12	A	larm		Normally excited		
11-	-12	S	tart		Normally no-excited		



To start the motor, close "Start" input. Module controls the "Thermal protection" input and "Stop" input closing.

If "Thermal protection" input and "Stop" input are closed, Z-D-IO enables "Start" output. After motor command delay (see Dip-Switches SW2-3 and SW2-4 or reg.40005), closure of "Feedback" input is verified. If it is still open, "Alarm" output is enabled by module ("Start" output remains enabled).

If "Thermal protection" input opens during operation, "Alarm" output is enabled immediately, and "Start" output is disabled.

To switch off alarm, close "Switch off alarm" input.

To stop motor, open "Stop" input: the module disables "Start" output.

The "Feedback" input must open within motor command delay, otherwise the module enables "Alarm" output.

PNEUMATIC VALVE COMMAND MODALITY

Before using Z-D-IO in pneumatic valve command modality, set pneumatic valve delay (through reg.40006 or Dip-Switches SW2-3 and SW2-4).

FU	FUNCTIONING MODALITY (Dip-Switches: SW2)							
1	2	3	4	Meaning				
	•			Pneumatic valve command modality				
IN	PUT							
Sc	rew	Μ	eanin	g	Default			
ter	minals	5						
4-1		Lo	ocal/R	Remote	Normally open			
5-1		A	ctivati	on	Normally open			
6-1		R	eturn		Normally closed			
7-1	l	R	eturn	travel-limit	Closed in position			
8-1	l	A	Activation travel-limit Closed in pos					
9-1		#9	9 Scre	ew terminal isn't used	1			
οι	JTPUT	-						
Sc	rew	Meaning		g	Default			
ter	minals	;						
10	-12	A	larm		Normally excited			
11	-12	A	ctivati	on	Normally no-excited			



To enable the pneumatic valve, close "Activation" input. Module controls the "Return" input closing.

If "Return" input is closed, Z-D-IO enables "Activation" output. After pneumatic valve command delay (see Dip-Switches SW2-3 and SW2-4 or reg.40006), opening of "Activation travel-limit" input is verified. If it is still closed, "Alarm" output is enabled by module ("Activation" output remains enabled).

To switch off alarm, close "Switch off alarm" input.

If you open "Return" input, Z-D-IO disables "Activation" output.

"Return travel-limit" input must open within pneumatic valve command delay, otherwise the module enables "Alarm" output.

If "Activation travel-limit" and "Return travel-limit" inputs are opened at the same time, "Alarm" output is activated and LED FAIL is on.

MOTORIZED VALVE COMMAND MODALITY

Before using Z-D-IO in pneumatic valve command modality, set motorized valve delay (through reg.40007 or Dip-Switches SW2-3 and SW2-4).

FU	FUNCTIONING MODALITY (Dip-Switches: SW2)						
1	2	3	4	Meaning			
٠	•			Motorized command valve command modality			
IN	PUT						
Sc	rew	Μ	leanin	g	Default		
ter	minals	6		-			
4-1		Lo	ocal/R	lemote	Normally open		
5-1		A	Activation Normally open				
6-1		R	Return Normally closed				
7-1	l	R	Return travel-limit Closed in position				
8-1		A	Activation travel-limit Closed in position				
9-1		#9	#9 Screw terminal isn't used /				
οι	JTPUI	ſ					
Sc	rew	Μ	leanin	Default			
ter	minals	5	Ŭ				
10	-12	R	eturn		Normally no-excited		
11	-12	A	ctivati	on	Normally no-excited		



To enable the motorized valve, close "Activation" input. Module controls the "Return" input closing.

If "Return" input is closed, Z-D-IO disables "Return" output (if it was enabled) and enables "Activation" output. After motorized valve command delay (see Dip-Switches SW2-3 and SW2-4 or reg.40007), opening of "Activation travel-limit" input is verified. If it is still closed, "Activation" output is disabled and LED FAIL in on.

If you open "Return" input, Z-D-IO disables "Activation" output (if it was enabled) and enables "Return" output.

After motorized valve command delay, opening of "Return travel-limit is verified" (if it is closed), module enables the alarm.

If "Activation travel-limit" and "Return travel-limit" inputs are opened at the same time, LED FAIL is on.

Dip-switches table

In the following tables: box without circle means Dip-Switch=0 (OFF state); box with circle means Dip-Switch=1 (ON state).

In the following tables: to change jumper status, it is necessary to open lateral panel because J1, J2, J3, J4 jumpers are placed into the module.

BA	UD-R	D-RATE (Dip-Switches: SW1)							
1	2	Mea	Meaning						
		Bau	Baud-rate=9600 Baud						
	•	Bau	d-rate	e=192	200 E	Baud			
٠		Bau	d-rate	=384	400 E	Baud			
٠	٠	Bau	d-rate	=576	500 E	Baud			
AD	DRE	SS (D	ip-Sw	/itch	es: S	W1)			
3	4	5	6	7	8	Meaning			
						Address and Baud-Rate are acquired from memory(EEPROM)			
					•	Address=1			
				•		Address=2			
				٠	٠	Address=3			
			•			Address=4			
Х	Х	Х	Х	Х	Х				
٠	•	•	٠	٠	٠	Address=63			

RS485 TERMINATOR (J4 JUMPER)

Open	Closed	Meaning
•		RS485 terminator disabled
	٠	RS485 terminator enabled

FU	FUNCTIONING MODALITY (Dip-Switches: SW2)									
1	2	3	4	Meaning	<i>leaning</i>					
				I/O modality						
	٠			Pneumatic valve modality	1					
•				Motor command modality	,					
٠	•			Motorized valve comman	d modality					
AL	ARM DELAY (Dip-Switches: SW2)									
1	2	3	4	Meaning	Motor command	Pneumatic	Motorized valve			
					modality	valve modality	comm. modality			
				Delay is acquired from	See reg. 40005	See reg.40006	See reg.40007			
				EEPROM memory						
			•	Short alarm delay	2 sec	4 sec	15 sec			
		•		Average alarm delay	5 sec	30 sec	120 sec			
		٠	•	Long alarm delay	30 sec	120 sec	300 sec			

INTERNAL SUPPLY VAUX: screw terminal 1 (J1 JUMPER)				
Int	Ext	Meaning		
•		Internal supply Vaux enabled (to power digital inputs)		
	•	Internal supply Vaux disabled (to power digital inputs, use a external voltage Vext)		

OUT1 T	OUT1 TYPE: screw terminals 10-12 (J2 JUMPER)				
NO	NC	Meaning			
•		OUT1 is normally open			
	•	OUT1 is normally closed			

OUT2 TYPE: screw terminals 11-12 (J3 JUMPER)				
NO	NC	Meaning		
•		OUT2 is normally open		
	٠	OUT2 is normally closed		

RS485 Register table

The function codes supported by Z-D-IO are shown in the following table.

Functional code	First register address	Name	Functional code	Name
01	00001	Read Coil Status	05	Force Single Coil
02	10001	Read Input Status	06	Preset Single Register
03	40001	Read Holding Register	15	Write Multiple Coils
04	30001	Read Input Register	16	Write Multiple Registers

Name	Range	Interpretation of register	R/W	Default	Address
MachineID	/	MSB. LSB	R		40001
	Id_Code (Module ID)	,		0x10	Bit [15:8]
	Ext_Rev (Module version)	Ext_Rev (Module version)			
Dip Switches status	1	Bit	R		40003
	Switch1 of "SW2" state. Bit4 Switch1="0", bit40003.15=1 col	0003.15=0 correspo rresponds to Switch1	nds to ="1"	/	Bit 15
	Switch2 of "SW2" state. Bit4 Switch2="0", bit40003.15=1 col	0003.14=0 correspo rresponds to Switch2	nds to 2="1"	/	Bit 14
	Switch3 of "SW2" state. Bit40003.13=0 corresponds to / Bi Switch3="0", bit40003.13=1 corresponds to Switch3="1"				
	Switch4 of "SW2" state. Bit400 Switch4="0", bit40003.12=1 col	/	Bit 12		
	These bits aren't used			/	Bit [11:8]
	Switch1 of "SW1" state. Bit40003.7=0 corresponds to / Switch1="0", bit40003.7=1 corresponds to Switch1="1"				Bit 7
	Switch2 of "SW1" state. Bit Switch2="0", bit40003.6=1 corr	/	Bit 6		
	Switch3 of "SW1" state. Bit Switch3="0", bit40003.5=1 corr	/	Bit 5		
	Switch4 of "SW1" state. Bit40003.4=0 corresponds to Switch4="0", bit40003.4=1 corresponds to Switch4="1"				Bit 4
	Switch5 of "SW1" state. Bit40003.3=0 corresponds to Switch5="0", bit40003.3=1 corresponds to Switch5="1"				Bit 3
	Switch6 of "SW1" state. Bit Switch6="0", bit40003.2=1 corr	40003.2=0 correspo esponds to Switch6=	nds to ="1"	/	Bit 2

	Switch7 of "SW1" state. Bit	onds to –"1"	/	Bit 1	
	Switch8 of "SW1" state. Bit	40003.0=0 correspo	onds to	/	Bit 0
Address	Switch8= 0 , bit40003.0=1 corr	MSB I SB	= T R/W		40008
Parity	,		10,00		40000
	Address for RS485 (address of	module/node if para	meters	1	Bit [15:8]
	are configurated by memory	modality): from 0x0)1=1 to		
	Parity for RS485: 0=there isn't:	1=even: 2=odd		0	Bit [7:0]
Baudrate	/	MSB, LSB	R/W	-	40009
Delay					
	Baud-rate for RS485 (bauc parameters are configurated	d-rate of module/r d by memory mo	ode if odality):	38400	Bit [15:8]
	0=4800; 1=9600; 2=1920	0; 3=38400; 4=	57600;		
	5=115200; 6=1200; 7=2400	ommunication respo	onse: it	0	Bit [7:0]
	represents the number of the	pauses(*) between t	the end	0	Bit [7:0]
	of Rx message and the start of	Tx message): from	0x00=0		
	to 0xFF=255				
IN and OUT	()) pause=6 characters	Bit	R/W		40002
	Input1 state (if I/O modality): 0=	open; 1=closed	10,00	See note	Bit 15
	Local/remote state (if motor of	control modality, mo	otorized	below	
	valve command modality, p	neumatic valve co	mmand		
	Input2 state (if I/O modality): 0	=open: 1=closed		See note	Rit 14
	Start state (if motor control mo	Start state (if motor control modality): 0=0pch; 1=closed			Dit 14
	Activation state (if motorized				
	pneumatic valve command modality): 0=open; 1=closed				Dit 12
	Stop state (if motor control mod	=open, r=closed dalitv): 0=open: 1=clo	osed	below	DIL 13
	Return state (if motorized valve command modality,				
	pneumatic valve command modality): 0=open; 1=closed				
	Input4 state (If I/O modality): 0=open; 1=closed			See note	Bit 12
	0=open: 1=closed			DEIOW	
	Return travel-limit state (if mot	orized valve commar	nd		
	modality, pneumatic valve command modality): 0=open;				
	1=Closed	-open: 1-closed		See note	Bit 11
	Feedback (if motor control mod	lality): 0=open; 1=clo	sed	below	Bit I I
	Activation travel-limit (if m	otorized valve co	mmand		
	modality, pneumatic valve co	mmand modality): ()=open;		
	Input6 state (if I/O modality): 0=	=open: 1=closed		See note	Bit 10
	Switch off alarm state (if motor	control modality, mo	otorized	below	2.1.10
	valve command modality, p	neumatic valve co	mmand		
	These bits aren't used			1	Bit Q
	Alarm: 0=there isn't: 1=there is			, See note	Bit 8
				below	
	Alarm output state (if motor o	control modality, pne	eumatic	See note	Bit 7
	Return output state (if m	eactivated; 1=activat	ed mmand	Delow	
	modality): 0=deactivated; 1=ac	tivated	manu		
	Start output state (if r	notor control ma	odality):	See note	Bit 6
	0=deactivated; 1=activated	optorized value		below	
	modality, pneumatic valve	e command m	odalitv):		

0=deactivated; 1=activated		
These bits aren't used	/	Bit [5:2]
Output1 state (if I/O modality): 0=OFF; 1=ON	/	Bit 1
Alarm (if motor command modality, pneumatic valve		
command modality)		
Return (if motorized valve command modality)		
Output2 state (if I/O modality): 0=OFF; 1=ON	/	Bit 0
Alarm (if motor command modality)		
Return (if motorized valve command modality, pneumatic		
valve command modality)		



To know default values, see "Functioning" for selected functioning modality.

IN and OUT	/ Bit	F	२		40014
State	Input1 state (if I/O modality): 0=open; 1=closed Local/remote state (if motor control modality, motorized valve command modality, pneumatic valve command modality): 0=local control: 1=remote control				
	Input2 state (if I/O modality): 0=open; 1=cl Start state (if motor control modality): 0=op Activation state (if motorized valve com pneumatic valve command modality): 0=op	osed oen; 1=close mand mod en; 1=close	ed Iality, ed	See note below	Bit 14
	Input3 state (if I/O modality): 0=open; 1=cl Stop state (if motor control modality): 0=op Return state (if motorized valve comr pneumatic valve command modality): 0=op	osed en; 1=close nand mod en; 1=close	ed Iality, ed	See note below	Bit 13
	Input4 state (if I/O modality): 0=open; 1=cl Thermal protection state (if motor co 0=open; 1=closed Return travel-limit state (if motorized valve modality, pneumatic valve command moda 1=closed	osed ntrol moda command lity): 0=ope	ality): n;	See note below	Bit 12
	Input5 state (if I/O modality): 0=open; 1=cl Feedback (if motor control modality): 0=ope Activation travel-limit (if motorized va modality, pneumatic valve command mo 1=closed	osed en; 1=close alve comn dality): 0=o	ed nand open;	See note below	Bit 11
	Input6 state (if I/O modality): 0=open; 1=clc Switch off alarm state (if motor control mod valve command modality, pneumatic v modality): 0=open; 1=closed	osed ality, moto alve comn	rized nand	See note below	Bit 10
	These bits aren't used			/	Bit 9
	Alarm: 0=there isn't; 1=there is			See note below	Bit 8
	Output1 state (if I/O modality): 0=OFF; 1=C Alarm output state (if motor control mode valve command modality): 0=OFF; 1=ON Return output state (if motorized va modality): 0=OFF; 1=ON	DN ality, pneur alve comn	matic nand	See note below	Bit 7
	Output2 state (if I/O modality) Start output state (if motor control mo 1=ON Activation output state (if motorized v modality, pneumatic valve command mo 1=ON	dality): 0=0 alve comn idality): 0=0	OFF; nand OFF;	See note below	Bit 6
	These bits aren't used			/	Bit [5:0]



To know default values, see "Functioning" for selected functioning modality.

Command state	1	Bit	R/W		40015
	These bits aren't used			/	Bit [15:2]
	Output1 state (if I/O modality): 0=OFF; 1=ON Alarm command (if motor command modality, pneumatic valve command modality): 0=OFF; 1=ON Return command (if motorized valve command modality): 0=OFF; 1=ON			/	Bit 1
	Output2 state (if I/O modality): 0=OFF; 1=ON Alarm (if motor command modality): 0=OFF; 1=ON Return (if motorized valve command modality, pneumatic valve command modality): 0=OFF; 1=ON			1	Bit 0



To know default values, see "Functioning" for selected functioning modality.

Delay DipSw	/	Word	R		40004
	Delay between input action	and corresponding	output	/	
	effect [sec/10] (if delay is config	jurated by Dip-Switch	nes)		
Motor control	/	Word	R/W		40005
delay					
	Delay between input action	and corresponding	output	100	
	effect [sec/10] (if motor control	modality)		(10sec)	
Pneumatic	/	Word	R/W		40006
valve comm.					
delay					
	Delay between input action	and corresponding	output	100	
	effect [sec/10] (if pneumatic val	ve command modalit	<u>y)</u>	(10sec)	
Motorized	/	Word	R/W		40007
valve comm.					
delay					
	Delay between input action and corresponding output 100				
	effect [sec/10] (if motorized val	ve command modalit	ty)	(10sec)	

The «Input Status»-type registers used for Z-D-IO module are shown in the following table:

Name	Range	Interpretation of register	R/W	Default	Address
IN1 state	0-1	Word	R		10001
	Input1 state (if I/O modality): 0= Local/remote state (if motor c valve command modality, pr modality): 0=local control; 1=rer	open; 1=closed ontrol modality, mot neumatic valve con note control	torized nmand	/	
IN2 state	0-1	Word	R		10002
	Input2 state (if I/O modality): 0=open; 1=closed / Start state (if motor control modality): 0=open; 1=closed Activation state (if motorized valve command modality, pneumatic valve command modality): 0=open; 1=closed				
IN3 state	0-1	Word	R		10003
	Input3 state (if I/O modality): 0=open; 1=closed Stop state (if motor control modality): 0=open; 1=closed			/	

	Return state (if motorized	valve command mo	odality,		
IN/ state		Word	R		10004
	Input4 state (if I/O modality): 0=open; 1=closed Thermal protection state (if motor control modality): 0=open; 1=closed Return travel-limit state (if motorized valve command modality, pneumatic valve command modality): 0=open 1=closed			1	10004
IN5 state	0-1	Word	R		10005
	Input5 state (if I/O modality): 0 Feedback (if motor control mod Activation travel-limit (if m modality, pneumatic valve co 1=closed	=open; 1=closed dality): 0=open; 1=clos otorized valve cor mmand modality): 0:	sed nmand =open;	1	
IN6 state	0-1	Word	R		10006
	Input6 state (if I/O modality): 0 Switch off alarm state (if motor valve command modality, p modality): 0=open; 1=closed	torized nmand	/		
Alarm	0-1	Word	R		10008
	Alarm: 0=there isn't; 1=there is		1	/	
OUT1 state	0-1	Word	R		10009
	Output1 state (if I/O modality) : 0=OFF; 1=ON / Alarm output state (if motor control modality, pneumatic valve command modality): 0=OFF; 1=ON Return output state (if motorized valve command modality): 0=OFF; 1=ON				
OUT2 state	0-1	Word	R		10010
	Output2 state (if I/O modality): 0=OFF; 1=ON Start output state (if motor control modality): 0=OFF; 1=ON Activation output state (if motorized valve command modality, pneumatic valve command modality): 0=OFF; 1=ON			1	

The «Coil Status»-type registers used for Z-D-IO module are shown in the following table:

Name	Range	Interpretation of register	R/W	Default	Address
OUT1	0-1	Word	R/W		00002
command					
	Output1 state (if I/O modality) : 0=OFF; 1=ON Alarm output state (if motor control modality, pneumatic valve command modality): 0=OFF; 1=ON Return output state (if motorized valve command modality): 0=OFF; 1=ON			/	
OUT2	0-1	Word	R/W		00003
command					
	Output2 state (if I/O modality): 0=OFF; 1=ON Alarm (if motor command modality): 0=OFF; 1=ON Return (if motorized valve command modality, pneumatic valve command modality): 0=OFF; 1=ON			/	

LEDs for signalling

In the front-side panel there are 12 LEDs and their state refers to important operating conditions of the module.

LED	LED status	Meaning
PWR	Constant light	The power is on
ERR	Blinking light	The module has at least one of the errors described in RS485 Registers table
RX	Constant light	Verify if the bus connection is corrected
	Blinking light	The module received a data packet
TX	Blinking light	The module sent a data packet
IN 1-6	Constant light	IN1-6 state equal to «1»
	No light	IN1-6 state equal to «0» (if the power is on)
OUT 1-2	Constant light	OUT1-2 state equal to «1»
	No light	OUT1-2 state equal to «0» (if the power is on)

Easy-SETUP

To configure the Seneca Z-PC Line modules, it is possible to use Easy-SETUP software,

Free-downloadable from the www.seneca.it; the configuration can be performed by RS232 or RS485 bus communication.