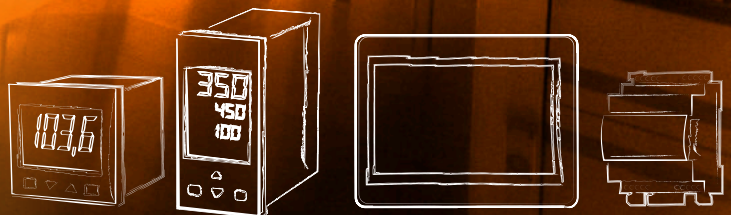




**PRODUCTS
FOR CONTROL AND
AUTOMATION
ALL IN.**



COMPANY PROFILE

Ascon Tecnologic is an Italian company, part of an international group, that develops, manufactures and commercializes a complete range of products for the control and automation of machinery and systems in the manufacturing and processing sectors as well as that of industrial and commercial refrigeration.

The group Ascon Tecnologic has more than 200 employees and, in its productive plants, realizes every year over a million of instruments.

Ascon Tecnologic operates in over 50 countries with 6 branches, its own agents and a distribution network, offering clients sales and after-sales assistance.

CERTIFICATIONS, SAFETY AND STANDARDS

The company Ascon Tecnologic is certified UNI EN ISO 9001: 2015. The instruments manufactured are intended for use in compliance with current regulations, CE marked according to the Directives 2006/95 / EC (low Voltage) and 2004/108 / CE (EMC). Each instrument produced by Ascon Tecnologic is provided with relevant specific documentation and individual certification with the details of the applicable standards.

INDEX

INDUSTRIAL AUTOMATION

INDUSTRIAL CONTROLLERS	6
ADVANCED PROGRAMMER CONTROLLERS	8
DIN RAIL MOUNTING CONTROLLERS	10
THERMOSTATS – ANALOGUE CONTROLLERS	12
SPECIAL CONTROLLERS	14
PAC SYSTEMS	16
OPERATOR PANELS	18
TIMERS – COUNTERS – POWER LIMITERS	20
INDICATORS	22

ACQUISITION AND DATA RECORDING

ANALOGUE/DIGITAL I/O MODULES	24
ANALOGUE I/O MODULES	26
DIGITAL I/O MODULES	28
CONVERTERS – GATEWAY	30

ACCESSORIES

TEMPERATURE SENSORS	32
PRESSURE TRANSMITTERS AND TEMPERATURE TRANSMITTERS	33
INFRARED SENSORS	34
HUMIDITY TRANSMITTERS	35

INDUSTRIAL CONTROLLERS



FEATURES		KM1	KX1	R38	KR1	TLK43	TLK72	TLK96
Dimensions (mm)		48 x 48	48 x 96	78 x 35	78 x 35	48 x 48	72 x 72	96 x 96
Display	Double, 4 digit, 3 dynamic colours	•	•		•			
	Single, 4 digit			•			•	•
	Double, 4 digit					•		
	White, 4 digit	•			•			
"Sensitive Touch" keyboard				•				
Input	Universal input					•		
	PTC-NTC			•			•	•
	J-K	•	•	•	•		•	•
	S						•	•
	S-R-T	•	•		•			
	Pt100	•	•	•	•		•	•
	ΔT Pt100							
	Pt1000	•	•	•	•	•		
	IR sensors					•	•	
	Digital	2	2		2	1		
For CT					•			
Relay or voltage for SSR drive outputs		4	4	2	4	4	3	2
Analogue output for control and retransmission						2		
Analogue output for retransmission								
Power supply	12 Vac/Vdc			•				
	24 Vac/Vdc	•	•	•	•	•	•	•
	100... 240 Vac	•	•	•	•	•	•	•
	24... 240 Vac/dc	•						
Control type	ON/OFF and PID	•	•	•	•	•	•	•
	Servomotor control					•		
RS485		•	•		•	•	•	
Remote Set point								•
Timer on board		•	•		•			•
Programmer								
CE certification		•	•	•	•	•	•	•
UL certification		•	•	•	•	•	•	•



TLK94	C1	M1	M2	M3	M4	X1	X3	Q1	Q3
48 x 96	48 x 24	48 x 48	48 x 48	48 x 48	48 x 48	48 x 96	48 x 96	96 x 96	96 x 96
	•	•							
•			•	•	•	•	•	•	•
•									
•	•	•	•	•	•	•	•	•	•
•									
•	•	•	•	•	•	•	•	•	•
2			1		1		3		3
•									
5	2	2	3	3	4	4	4	4	4
2	1	1		1	1	1	1	1	1
•	•	•		•	•	•	•	•	•
•									
•	•	•	•	•	•	•	•	•	•
•									
•	•	•	•	•	•	•	•	•	•
•									
•									
•									
•							1 x 8		1 x 8
•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•

ADVANCED PROGRAMMER CONTROLLERS



FEATURES	KM2	KM3	KM5	IX3	IX5	IX6	KR3	KR5	KRD3	
Dimensions (mm)	48 x 48	48 x 48	48 x 48	48 x 96	48 x 96	48 x 96	78 x 35	78 x 35	78 x 35	
Display	Double, 4 digits 3 dynamic colours	•	•	•	•	•	•	•	•	
	Single, 4 digit									
	Double, 4 digit									
	Triple, 4 digit					•				
	White, 4 digit	•	•	•			•			
"Sensitive Touch" keyboard										
Input	Universal input	•	•	•	•	•	•	•	•	
	J-K-S-R-T + IR + PTC-NTC									
	J-K-S-R-T + IR + Pt100									
	ΔT Pt100									
	Digital		2	2	2	2	2	2	2	
	Frequency									
	Potentiometer									
	For CT	•								
Extract.of square root										
Relay or voltage for SSR drive outputs	3	4	4	4	4	4	4	4	4	
Analogue output for control and retrans.	1	1	1	1	1	1	1	1	1	
Analogue output for retransmission	•	•	•	•	•	•	•	•	•	
Power supply	12 Vac/Vdc									
	24 Vac/Vdc		•	•	•	•	•	•	•	
	100... 240 Vac		•	•	•	•	•	•	•	
	24... 240 Vac/dc	•	•	•						
Control type	ON/OFF and PID	•	•	•	•	•	•	•	•	
	Servomotor control			•	•	•		•		
TTL + RS485 Modbus	•	•	•	•	•	•	•	•		
RS485 Modbus Master	•	•	•	•	•	•	•	•		
Profibus DP										
Remote Set point										
Mathematical package										
Timer on board / Split range	•	•		•			•			
Programmer	•	•	•	•	•	•	•	•		
CE + UL certification	•	•	•	•	•	•	•	•		



	K31	K32	K38	K39	K48	K49	K85	K30	M5	X5	Q5
Dimensions (mm)	78 x 35	78 x 35	78 x 35	78 x 35	48 x 48	48 x 48	48 x 96 B/DIN	48 x 96 B/DIN	48 x 48	48 x 96	96 x 96
Display	Double, 4 digits 3 dynamic colours	•	•	•	•	•	•	•	•	•	•
	Single, 4 digit										
	Double, 4 digit		•	•	•	•	•	•	•	•	•
	Triple, 4 digit									•	•
	White, 4 digit										
"Sensitive Touch" keyboard											
Input	Universal input	•	•	•	•	•	•	•	•	•	•
	J-K-S-R-T + IR + PTC-NTC	•	•	•	•	•	•	•	•	•	•
	J-K-S-R-T + IR + Pt100	•	•	•	•	•	•	•	•	•	•
	ΔT Pt100								•	•	•
	Digital	2	2			2	2	2	2	3	3
	Frequency									•	•
	Potentiometer								•	•	•
	For CT								•	•	•
Extract.of square root								•	•	•	
Relay or voltage for SSR drive outputs	4	4	2	2	3	3	3	5	3	4	4
Analogue output for control and retrans.									1	2	2
Analogue output for retransmission	•	•	•	•	•	•	•	•	•	•	•
Power supply	12 Vac/Vdc										
	24 Vac/Vdc		•	•	•	•	•	•	•	•	•
	100... 240 Vac		•	•	•	•	•	•	•	•	•
	24... 240 Vac/dc	•	•	•							
Control type	ON/OFF and PID	•	•	•	•	•	•	•	•	•	•
	Servomotor control								•	•	•
TTL + RS485 Modbus	•	•	•	•	•	•	•	•	•	•	
RS485 Modbus Master	•	•	•	•	•	•	•	•	•	•	
Profibus DP										•	•
Remote Set point									•	•	•
Mathematical package										•	•
Timer on board / Split range	•	•	•	•	•	•	•	•	•	•	•
Programmer	•	•	•	•	•	•	•	•	1 x 16	4 x 16	4 x 16
CE + UL certification	•	•	•	•	•	•	•	CE only	•	•	•

DIN RAIL MOUNTING CONTROLLERS



FEATURES		D1	D2	D3
Dimensions (mm)		22.5 x 99 1 DIN module	22.5 x 99 1 DIN module	22.5 x 99 1 DIN module
Single display, 4 digit				
Input	Number of inputs	1	2	1
	Universal input	•	•	•
	J-K-S-R-T + IR + PTC-NTC			
	J-K-S-R-T + IR + Pt100			
	Digital	1	1+2	1
	PTC-NTC For CT	•		
Outputs	Relay or voltage for SSR drive outputs	4	2+2	4
	Analogue current or voltage outputs			1
Measuring or Set Point retransmission				•
Power supply	12 Vac/Vdc			
	24 Vac/Vdc	•	•	•
	100... 240 Vac			
Number of loops		1	2	1
Control type	ON/OFF and PID	•	•	•
	ON/OFF			
	Servomotor control			•
RS485 Modbus Slave		•	•	•
Timer on board		•		•
Start up		•		•
Programmer				
CE certification		•	•	•
UL certification		•	•	•



	K30	KRD3	KRD7	K85	TLZ35
	78 x 35	78 x 35	78 x 35	70 x 84 4 DIN module	70 x 84 4 DIN module
				•	•
	1	1		1	1
	•			•	
	•	•		•	
	2	1		2	
					•
	5	4		4	2
		1			
			4		•
	•	•	4	•	•
	•	•	•	•	•
	1	1	•	1	1
	•	•		•	
		•	•		•
	•	•		•	
	•	•		•	
	•	•	•	•	•
	•	•		•	•

THERMOSTATS – ANALOGUE CONTROLLERS



FEATURES		Z31A	TLZ35
Dimensions (mm)		78 x 35	70 x 84 4 DIN module
Display	Single, 3 digit	•	
	Single, 4 digit		•
"Sensitive Touch" keyboard		•	
Input	PTC-NTC	•	•
	J-K		
	Pt100		
	Digital		1
Relay or voltage for SSR drive outputs		1	2
Power supply	12 Vac/Vdc	•	•
	12... 24 Vac/Vdc	•	
	24 Vac/Vdc		•
	115 Vac		
	230 Vac		
	24... 240 Vac		
	100... 240 Vac	•	•
Control type	ON/OFF	•	•
	PD		
CE certification		•	•
UL certification		•	•



	E51A	W09	TCPDE
Dimensions (mm)	68 x 35	75 x 122	48 x 48
Display	•	•	
"Sensitive Touch" keyboard			
Input	•	•	•
Relay or voltage for SSR drive outputs	1	1	1
Power supply	•		
	•		
			•
		•	
Control type	•	•	•
			•
CE certification	•	•	•
UL certification			

SPECIAL CONTROLLERS



FEATURES		KR7	KM7
Dimensions (mm)		78 x 35	48 x 48
Display	Single, 4 digit		
	Double, 4 digits 3 dynamic colours	•	•
	Triple 3 + 3 + 4 digit		
Inputs	J-K		
	Universal	•	•
	TC J,K,S, IR + Pt100		
	TC J,K,S, IR + PTC, NTC		
	0/4... 20mA		
	0/10... 50mV, 0/12... 60mV, 0/1... 5V, 0/2... 10V		
	Digital	2	2
Outputs	Relay	4	4
	Voltage 12... 24 Vdc and Vdc for SSR driving (10mA/Vdc)	4	4
	PWM feedback for motor speed control 24 VDC max 4A	•	•
	24 Vac/Vdc, 100... 240 Vac/Vdc	•	•
Power supply	24... 240 Vac/dc		•
	24, 115, 230 Vac		
	12... 24 Vdc		
Control type	230 Vac		
	Single and double action PID, ON / OFF, Neutral Zone, Autotuning, Selftuning, evoTune, Overshoot control	•	•
	ON/OFF		
	Peltier cells: double action PID, FAST Autotuning algorithms, Selftuning, Fuzzy overshoot control		
RS485	•		
8 Programs			
CE certification	•	•	
UL certification	•	•	



KX7	KRD7	TC030	TLK33
48 x 96	78 x 35	72 x 144	78 x 35
•			•
		•	
		•	
•			
			•
			•
			•
			•
4	1	3	
4	4	7	
•	•		2
•	•		
		•	
		•	
•	•		•
		•	
			•
	•	•	•
•	•	•	•
•	•		

PAC SYSTEMS

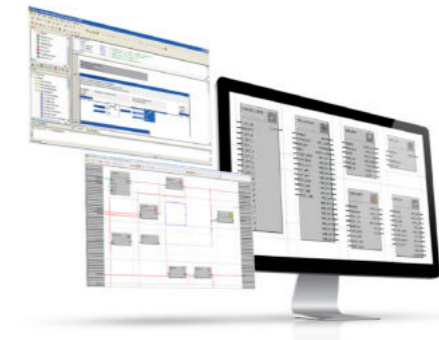


FEATURES		NP4	EP4
Dimensions (mm)		105 x 110 6 DIN module	105 x 110 6 DIN module
Inputs	Universal (mA, V, TC, RTD, NTC, Potentiometer)	4 (16 bit)	4 (16 bit)
	24 Vdc digital	8...16	8...16
	Digital for fast counting	2	2
Outputs	Relay or voltage for SSR drive outputs	0...4	0...4
	Analogue current or voltage outputs	0/2/4	0/2/4
	24 Vdc digital	8...16	8...16
Control type	ON/OFF, PID with advanced Autotuning	•	
	Servomotor control	•	
Power supply	24 Vdc	•	•
Processor 32 bit		•	•
Memory	16 MB Flash, 32 MB SDRAM, 128 kB MRAM	•	
Micro USB (Data log, programming, Fw updates)		• (AB type)	
Real Time Clock		•	
Ethernet port (configuration, communication, programming)		•	
RS485		•	•
RS232/RS485		1	
Modbus RTU protocol		Master/Slave	Slave (remote)
Modbus TCP protocol		Server	
Programming languages: IL, ST, FBD, LD, SFC, CFC		•	
Advanced libraries dedicated to process control		•	
CE certification		•	•
UL certification		•	•



	XP4	AC3NP
Dimensions (mm)	105 x 110 6 DIN module	72 x 144 8 DIN module
Inputs	12 (12 bit)	4 (16 bit)
	0...8	10
Outputs	0...8	0...4
	0...2 (0...10V only)	0...4
Control type		•
Power supply	•	•
Processor 32 bit	•	•
Memory		•
Micro USB (Data log, programming, Fw updates)		•
Real Time Clock		•
Ethernet port (configuration, communication, programming)		•
RS485	•	•
RS232/RS485		1
Modbus RTU protocol	Slave	Master/Slave
Modbus TCP protocol		Server
Programming languages: IL, ST, FBD, LD, SFC, CFC		•
Advanced libraries dedicated to process control		•
CE certification	•	•
UL certification	•	•

nanoPAC



PROGRAMMING

- IEC 61131-3 (IL, ST, FBD, LD, SFC, CFC)



Easy
It allows implementation of new functions or values to be monitored, thanks to its open programming logic and wide availability of functional blocks, ready to use.



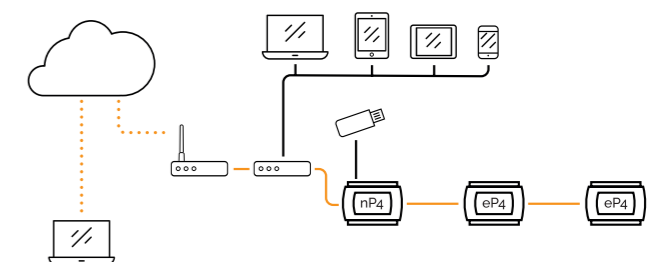
Versatile
Functionalities can be expanded by using additional modules, which increase the number of available resources, allowing the management of even more complex machines.



Connected
It connects machines and aligns them with the requirements necessary to access incentives and super-amortization provided by the 4.0 industry. Thanks to remote management, it reports real-time alarms, malfunctions and useful data for preventive maintenance.



Practical
It offers freedom to use 6 universal IEC61131-3 languages. This feature allows to use the best tool for each type of application functionality.



OPERATOR PANELS



FEATURES	PM 235	OPMT 8050IE	OPMT 8071IE
Dimensions (inches)	3.5"	4.3"	7"
Flash MB memory	128	128	128
RAM MB memory	64	128	128
Colors	65536	16M	16M
Slot SD/SDHC card			
USB Host	•	•	•
USB Client	•		
Ethernet		•	•
Power supply	24 Vac/Vdc	•	•
Video			
COM1 RS232			•
COM1 RS232/485 2 and 4 wires		•	
COM1 RS485 2 wires			
COM1 RS232/RS422/RS485/ (RS232+RS485)	•		
COM2 RS232			
COM2 RS485 2 and 4 wires			•
COM3 RS232/485 2 wires			
COM3 RS485 2 wires		•	•
COM3 RS485 2 wires/RS232			
Programming Software (optional)	•	•	•
Easy access for integrated remote managing			
CE certification	•	•	•
UL certification		•	•



	8073IE	OPMT 8090XE	OPMT 8092XE	OPMT 8121XE	OPMT 8150XE/N
Dimensions (inches)	7"	9.7"	9.7"	12.1"	15"
Flash MB memory	128	512	512	256	256
RAM MB memory	128	256	256	256	256
Colors	16M	16M	16M	16.2 M	16.2M
Slot SD/SDHC card				•	•
USB Host	•	•	•	•	•
USB Client				•	•
Ethernet	2	•	2	•	•
Power supply	•	•	•	•	•
Video					•
COM1 RS232	•	•	•		
COM1 RS232/485 2 and 4 wires				•	•
COM1 RS485 2 wires				•	•
COM1 RS232/RS422/RS485/ (RS232+RS485)					
COM2 RS232					
COM2 RS485 2 and 4 wires	•	•	•		
COM3 RS232/485 2 wires		•		•	•
COM3 RS485 2 wires	•				
COM3 RS485 2 wires/RS232		•	•		
Programming Software (optional)	•	•	•	•	•
Easy access for integrated remote managing	•	•			
CE certification	•	•	•	•	•
UL certification	•		•	•	•

TIMERS – COUNTERS – POWER LIMITERS



FEATURES		TIMERS			
		BWT40	TT31	TT49	TT73
Dimensions (mm)		35.8 x 90 DIN rail	78 x 35	48 x 48	72 x 72
Display	Single, 4 digit		•	•	•
	Single, 6 digit	•			
Input	2 for free voltage contacts		•	•	•
	2 for voltage contacts			•	•
Outputs	Relay or voltage for SSR drive outputs		2	2	2
	Relay	2			
Power supply	12 Vac/Vdc		•	•	•
	24 Vac/Vdc		•	•	•
	100... 240 Vac	•	•	•	•
Multiscale – Multifunction		•	•	•	•
Multifrequency – Multifunction					
NFC programming			•		
40 daily and/or weekly programs		•			
Manual activation of the outputs, Daylight Saving Function, Random Function		•			
CE certification			•	•	•

COUNTERS			POWER LIMITERS	
TC34	TC49	TC73	TP34	TP49
78 x 35	48 x 48	72 x 72	78 x 35	48 x 48
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
2	2	2	2	2
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•

INDICATORS



FEATURES		TLI40	K31V	K38V
Dimensions (mm)		48 x 48	78 x 35	78 x 35
Display	Single, 4 digit	•	•	•
	Single, 5 digit, dual colours			
Main input	Universal input	•		
	J-K-S-R-T + IR + PTC-NTC		•	•
	J-K-S-R-T + IR + Pt100		•	•
	0/4... 20 mA 0 0/1... 5 V 0 0... 10V		•	•
	Δ T PT100			
	Digital		2	
	Strain gauge (5V/10V)			
Auxiliary input	0/4... 20 mA 0 0/1... 5 V 0 0... 10V			
Outputs	Relay or voltage for SSR drive outputs	4	4	2
	Analogue current or voltage outputs	1		
Measuring retransmission				
Power supply	12 Vac/Vdc		•	•
	20... 30 Vac/Vdc	•		
	24 Vac/Vdc		•	•
	100... 240 Vac	•	•	•
RS485 Modbus		•	•	
Mathematical functions				
MIN, MAX, HOLD PV, HOLD PICCO, MEDIA functions				
CE certification		•	•	•
UL certification		•	•	•



K48V	K85V	C1	J1	J3	J5
48 x 48	70 x 84 4 DIN module	24 x 48	96 x 48	96 x 48	96 x 48
•	•	•			
			•	•	•
		•	•	•	•
•	•				
•	•				
•	•				
		•	•	•	
2	2		3	3	3
					•
				•	•
3	3	2	4	4	4
		1	1	1	1
		•		•	•
•	•	•	•	•	•
•	•	•	•	•	•
	•	•	•	•	•
				•	•
•	•	•	•	•	•
•	•	•	•	•	•

ANALOG/DIGITAL I/O MODULES



FEATURES		D7
Dimensions (mm)		22.5 x 99
Inputs	Thermocouples: L, J, E, T, K, N, S, R, B, Ni-NiMo, W3, W5 Thermoresistances: PT100 Linear signals: 0/10 ... 50 mV; 0/4 ... 20 mA (shunt) Infrared sensors or settable on special scales (custom)	1
	Universal (mA, V, TC, RTD, NTC, Potentiometer)	
	PTC (KTY 81-121, 990 W @ 25°C), NTC (103AT-2, 10 KW @ 25°C) or Pt1000 (1KW @ 0°C)	
	24 Vdc digital	1
Outputs	Digital for fast counting	
	Relay or voltage for SSR drive outputs	2
	Logic, not isolated	
	0/4... 20 mA	1
	Analogue current or voltage outputs	
Signal retransmission		•
RS485		•
Isolated RS485, Modbus-Jbus protocol		•
Modbus RTU protocol		•
Power supply	12... 24 Vac/Vdc, 100... 240 Vac	•
	24 Vac (-25...+12%), 24Vdc (-15...+25%) (50/60Hz)	•
	24 Vdc	•
CE + UL (listed) certification		•
CE + UL certification		•



D9	D8	X30A	EP4	XP4
22.5 x 99	22.5 x 99	87.5 x 28	105 x 110 6 DIN module	105 x 110 6 DIN module
2				
			4	0... 12
		4		
1		2	8... 16	0... 8
			2	
2	2	4	0... 4	0... 8
2				
			0/2/4	0... 2
		2	8... 16	
		•	•	•
•	•			
				•
•	•	•	•	•
•	•	•	•	•

ANALOG I/O MODULES



FEATURES		AI		
		02UI	04RT	08TC
Dimensions (mm)		76 x 110 Single module	76 x 110 Single module	76 x 110 Single module
Channels	Input	2	4	8
	Outputs			
Inputs	Thermocouples J,K,N,S,R,T	•	•	•
	RTD PT100 and PT1000	•	•	
	Current (mA)	•		
	Voltage (mV)	•	•	•
	Voltage (V)	•		
	Potentiometer	•		
	Double polarity	•		
16 bit resolution		•	•	•
Accuracy 0.1%		•	•	•
Power supply	24 Vdc	•	•	•
Fast acquisition		•		
CanOpen protocol		•	•	•
Modbus RTU protocol			•	•
CE certification + UL (listed)		•	•	•

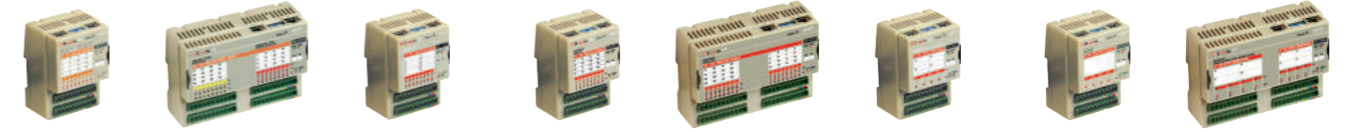


		AI		AO	
		08HL	08DP	08HL	08DP
Dimensions (mm)		76 x 110 Single module	76 x 110 Single module	76 x 110 Single module	76 x 110 Single module
Channels		8	8	8	8
Inputs	Thermocouples J,K,N,S,R,T	•	•	•	
	RTD PT100 and PT1000	•	•		
	Current (mA)	•	•		
	Voltage (mV)	•	•	•	•
	Voltage (V)	•	•	•	•
	Potentiometer	•			
	Double polarity	•			
16 bit resolution		•	•	•	•
Accuracy 0.1%		•	•	•	•
Power supply	24 Vdc	•	•	•	•
Fast acquisition		•	•	•	•
CanOpen protocol		•	•	•	•
Modbus RTU protocol		•		•	•
CE certification + UL (listed)		•	•	•	•

DIGITAL I/O MODULES

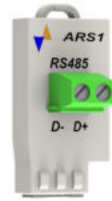
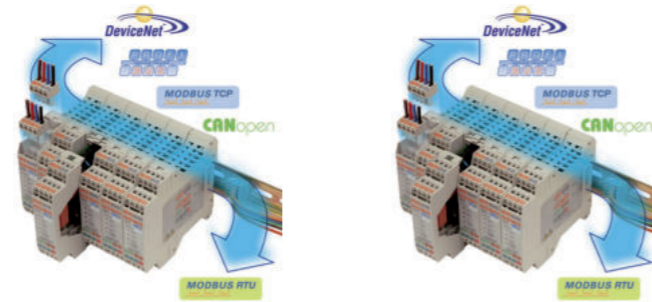


FEATURES		DI			DM
		16LV 76 x 110 Single module	16HV 76 x 110 Single module	32LV 152 x 110 Double module	08TS 76 x 110 Single module
Dimensions (mm)		76 x 110 Single module	76 x 110 Single module	152 x 110 Double module	76 x 110 Single module
Channels	Input	16	16	32	8
	Outputs				8
Inputs	24 Vdc	•		•	•
	120 Vac		•		
Outputs	24 Vdc				•
	250 Vac				
	Relay				
	2A				
	6A				
Power supply	24 Vdc	•	•	•	•
CanOpen protocol		•	•	•	•
Modbus RTU protocol		•			•
CE certification + UL (listed)		•	•	•	•



	DM		DO					
	16TS 76 x 110 Single module	32TS 152 x 110 Double module	16TS 76 x 110 Single module	16TP 76 x 110 Single module	32TS 152 x 110 Double module	04RL 76 x 110 Single module	04TX 76 x 110 Single module	08RL 152 x 110 Double module
Channels	8	16						
	8	16	16	16	32	4	4	8
Inputs	•	•						
	•	•	•	•	•		•	
Outputs						•		•
				•		•		•
							•	
Power supply	•	•	•	•	•	•	•	•
	•	•	•	•	•	•	•	•
			•					
	•	•	•	•	•	•	•	•

CONVERTERS - GATEWAY



FEATURES		DX	DY
Dimensions (mm)		22.5 x 99 Deltadue module	22.5 x 99 Deltadue module
Protocol	Modbus RTU	•	
	CanOpen		•
	Profibus DP	•	
	DeviceNet	•	
	Modbus TCP		•
Functions	TTL/RS485 - NOT ISOLATED		
	Multi master	2	8
	Instruments Backup (max. 32)	•	
	Data transfer (binding)	•	
	E-mail and SMS		
	Webserver		
	TCP Server		
Power supply	TTL / RS485 signal conversion (max 30 instruments)		
	24 Vac/dc	•	•
	9... 28 Vac/Vdc		
	Self-powered (Power supply given by the instrument to which it is connected)		
CE certification + UL (listed)		•	•

WEBCADA DY5121	AET1	ARS1
70 x 85 4 DIN module	28 x 87	19.60 x 40.59
•	•	•
4	7	
•		
•		
•	• (configuration)	
	•	
•		•
	•	
•	•	•

TEMPERATURE SENSORS



FEATURES	THERMOCOUPLES B-E-J-K-L-N-R-S-T-U-W3-W5	THERMORESISTANCES PT100/ Ni100/ PT1000	THERMISTORS PTC/NTC
Sheath dimensions (mm)	Ø 1-1.5-2-3-4-4.5-5-6-7-8-9-10 13.5-15-17.2-20-21.3-26-32-33-35-40	Ø 2-3-4-4.5-4.9-5-6-7-8-10-13 13.5-20	Ø 4-5-6-8
Temperature range	-50... +240°C (F-S-F cable) -40... +200°C (G-G and G-G-S cable) 0... 400°C (Glass fiber cable)	-20... +150°C (PVC cable) -50... +240°C (F-S-F cable) -50... +350°C (K-K cable) -40... +200°C (G-G and G-G-S cable) 0... 400°C (Glass fiber cable)	-30... 80±105°C (PVC cable) -50... 110±120°C (TPE cable) -50... 200±250°C (Silicone cable) -60... 250±300°C (Teflon cable) 0... 350±400°C (Kapton cable) 0... 350°C (Glass fiber cable) 0... 550°C (HT Glass fiber cable)
Outputs	2 wires	2, 3 or 4 wires	2 wires
Sheath material	AISI 304 - AISI 316 - MgO (Mantel)	AISI 304 - AISI 316 - MgO (Mantel)	AISI 316, 303, 304, 305, Nylon, Polypropylene, TPE, Brass, Copper, Aluminum, Silicone
Applications	General uses	•	•
	Portable thermometers	•	•
	Plastic / Rubber	•	•
	Pipelines	•	•
	Flat surfaces	•	•
	Measurements within plates	•	•
	Aerothermal surveys	•	•
	Solar	•	•
	Low, medium and high pressures	•	•
	Naval use	•	•
	Pharmaceutical use/ Laboratories	•	•
	Acid solutions	•	•
	Chemical industry/ Food industry	•	•
	Chemical use	•	•
	Automotive/ Internal combustion engine monitoring	•	•
	Electrical motor protection	•	•
	Industrial and/or food ovens	•	•
	Packaging	•	•
Ceramic industry	•	•	
High temperature/ Melted glass	•	•	
Building automation	•	•	
Conditioning	•	•	
Refrigeration	•	•	

Note: because of the vastness of existing application sectors, we have listed only a few in the table, so do not hesitate to contact us for any information or particular need. All the possible accessories are also available such as threaded sliding fittings, flanges, thermowells, compensation cables.

PRESSURE TRANSMITTERS



FEATURES	TP1	TP3	TP4	TP31
Sensor type	Ceramic and Piezoresistive	Ceramic and Piezoresistive	Ceramic and Piezoresistive	Differential, pressure flow and level
Display			•	•
Pressure range	Between 0... 0.1 bar and 0... 1000 bar Vacuum version: between -0.5 ... 0 bar and -y ... x bar (special calibration on request)			-1.5... +1.5 kPa; -7.5... +7.5 kPa; -186.5...+186.5 kPa (special calibration on request)
Threads type	1/4" G, 1/4" NPT, 3/8" G, 1/2" G, 1/2" NPT (others on request)	1/4" G, 1/4" NPT, 3/8" G, 1/2" G, 1/2" NPT, 1/2" G sep. M44, 1/2" NPT sep. M44, 1/2" G sep. M75, 1/2" NPT sep. M75, 1/2" G mem. facing, 1" G mem. facing, 1 "1/2 G mem. facing, 2" G mem. facing, Swivel DN 25, Swivel DN 40, Swivel DN 50 Triclamp 1 "1/2, Triclamp 2", Triclamp 2 "1/2, Flangetta SO, Flange Ø 79, others on request (piezoresistive sensor)	1/2" G, 1/2" NPT, flange Ø 79, others on request (ceramic sensor); 1/2" G, 1/2" NPT, 1/2" G sep. M44, 1/2" NPT sep. M44, 1/2" G sep. M75, 1/2" NPT sep. M75, 1/2" G mem. facing, 1" G mem. facing, 1 "1/2 G mem. facing, 2" G mem. overlooking, Swivel DN 25, Swivel DN 40, Swivel DN 50, Triclamp 1 "1/2, Triclamp 2", Triclamp 2 "1/2 Flangetta SO, Flange Ø 79, others on request (piezoresistive sensor)	1/2" NPT with adaptive flange 1/4" NPT
Output	4...20mA (2 wires), 21.5 mA max.			4... 20 mA (2 wires), configurable with or without HART communication protocol
Power supply	10... 30 Vdc	12... 40 Vdc	12... 35 Vdc	11.9... 45.9 Vdc
Protection degree	IP65/67	IP65/67	IP67	IP67 or ATEX

TEMPERATURE TRANSMITTERS



FEATURES	ATT1 / ATTT (ISOLATED VERSION)
Dimensions (mm)	Ø 45 x 23
Inputs	RTD (Pt100, Pt 1000, Ni100), TC (B, E, J, K, N, R, S, T), mV (-10... +70 mV) Potentiometer (10... 400Ω / 10... 4kΩ)
Temperature range	0... +200 °C
Output	4... 20 mA
Overall accuracy	Better than 0.2% f.s.
Mounting	On omega DIN rail or head mounting

INFRARED SENSORS



FEATURES	ZIS 01	ZIS 1X	ZIS 3X	ZIS EIRLIBGPMAT2018
Dimensions (mm)	∅ 20 x 32.5	∅ 12.7 x 36.5	∅ 12.7 x 44.7	M20 x 127 mm (including cable gland)
Temperature range	0... 200 °C	0... 650 °C		0... 500 °C
Measuring ratio	1:1 (60 °C)		3:1 (17 °C)	20:1
Housing material	ABS	Inox stainless steel		
Protection degree	IP65			

HUMIDITY TRANSMITTERS



FEATURES	TRH20/ TRH22	TRH21/ TRH42	H2	H5
Dimensions (mm)	∅ 20 x 185	80 x 122 , depth 50	Case: ∅ 85 x 58 mm. Stems: for wall mounting: 130 x ∅ 20 mm; for duct mounting: 120 or 250 x ∅ 20 mm	118 x 118 x 70 mm
Acquisition	Humidity	Humidity + temperature		Humidity + temperature, Differential
Humidity range	5... 95% RH	0... 100% RH	0... 100% RH	0.0... 100.0% RH
Temperature range	-10... +70 °C (TRH22 only)	-40... +60 °C (TRH42 only)	-30... +100 °C;	-30... +100 °C;
Output	4... 20 mA	4... 20 mA	0/4... 20 mA;	0/4...20 mA; 0...10V; 0...1 V
Power supply	8... 24 Vdc	9... 30 Vdc	10... 30 Vdc	18...27 Vac or 20... 30 Vdc
Mounting	on wall		On wall and on duct	

AND ALSO...

Solid state relays, Power controllers, Control valves, Servomotors, Electropneumatic converters, Signal converters, Programming keys, Adapters, Power transformers, Modems, Gaskets, Protective caps, Switches, Voltage transformers, Current transformers, ...

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