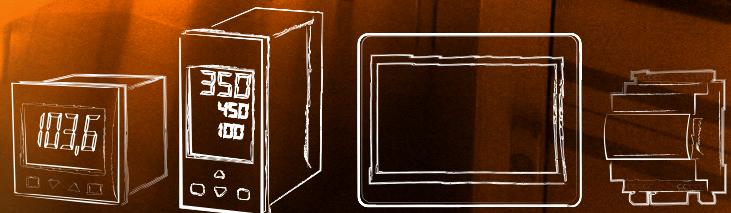


PRODUCTS
FOR CONTROL AND
AUTOMATION
ALL IN.



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.

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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
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	1	1	1	3	3	3
5	2	2	3	3	4	4	4	4	4
2	1	1	1	1	1	1	1	1	1
•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•
1 x 8									
1 x 8									

ADVANCED PROGRAMMER CONTROLLERS



FEATURES	KM2	KM3	KM5	KX3	KX5	KX6	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
	Double, 4 digits 3 dynamic colours	•	•	•	•	•	•	•	
	Single, 4 digit								
	Double, 4 digit								
	Triple, 4 digit					•			
"Sensitive Touch" keyboard	White, 4 digit	•	•	•			•		
	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	•							
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
Analogue output for retransmission	•	•	•	•	•	•	•	•	•
	12 Vac/Vdc								
Power supply	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
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
•		•		•		•				
	•		•		•			•		
		•							•	•
			•							
2	2			2	2	2	2	3	3	
•	•	•	•	•	•	•	•	•	•	
•	•	•	•	•	•	•	•	•	•	
•	•	•	•	•	•	•	•	•	•	
4	4	2	2	3	3	3	5	3	4	4
•	•	•	•	•	•	•	•	1	2	2
•	•	•	•	•	•	•	•	•	•	
•	•	•	•	•	•	•	•	•	•	
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•	•	•	•	•	•	•	•	•	•	
CE only								1x16	4x16	4x16

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		•	•	•



THERMOSTATS - ANALOGUE CONTROLLERS



FEATURES	Z31A	TLZ35	E51A	W09	TCPDE
Dimensions (mm)	78 x 35	70 x 84 4 DIN module	68 x 35	75 x 122	48 x 48
Display	Single, 3 digit	•	•	•	•
	Single, 4 digit	•	•	•	•
"Sensitive Touch" keyboard	•	•	•	•	•
Input	PTC-NTC	•	•	•	•
	J-K	•	•	•	•
	Pt100	•	•	•	•
	Digital	1	1	1	1
Relay or voltage for SSR drive outputs	1	2	1	1	1
Power supply	12 Vac/Vdc	•	•	•	•
	12... 24 Vac/Vdc	•	•	•	•
	24 Vac/Vdc	•	•	•	•
	115 Vac	•	•	•	•
	230 Vac	•	•	•	•
	24... 240 Vac	•	•	•	•
Control type	100... 240 Vac	•	•	•	•
	ON/OFF	•	•	•	•
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	
	J-K	
Inputs	Universal	•
	TC J,K,S, IR + PT100	
	TC J,K,S, IR + PTC, NTC	
	0/4... 20mA	
Outputs	0/0... 50mV, 0/2... 60mV, 0/1... 5V, 0/2... 10V	
	Digital	2
	Relay	4
	Voltage 12... 24 Vdc and Vdc for SSR driving (10mA/Vdc)	4
Power supply	PWM feedback for motor speed control 24 VDC max 4A	•
	24 Vac/Vdc, 100... 240 Vac/Vdc	•
	24... 240 Vac/dc	•
	24, 115, 230 Vac	
Control type	12... 24 Vdc	
	230 Vac	
	Single and double action PID, ON / OFF, Neutral Zone, Autotuning, Selftuning, evoTune, Overshoot control	•
	ON/OFF	•
RS485	Peltier cells: double action PID, FAST Autotuning algorithms, Selftuning, Fuzzy overshoot control	
	•	
8 Programs		
CE certification	•	•
UL certification	•	•

FEATURES	KX7	KRD7	TC030	TLK33
Dimensions (mm)	48 x 96	78 x 35	72 x 144	78 x 35
Display	•		•	•
Inputs	•		•	
Outputs	4	4	7	2
Power supply	4	4		
Control type	•	•		
RS485		•	•	•
8 Programs			•	
CE certification	•	•	•	•
UL certification	•	•		

PAC SYSTEMS



nanoPAC

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)		•	
RS45		•	•
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
	0...8	0...4
Outputs	0...2 (0...10V only)	0...4
		8
Control type		•
		•
Power supply	•	•
Processor 32 bit	•	•
Memory	•	•
Micro USB (Data log, programming, Fw updates)		•
Real Time Clock		•
Ethernet port (configuration, communication, programming)		•
RS45	•	•
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	•	•



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.



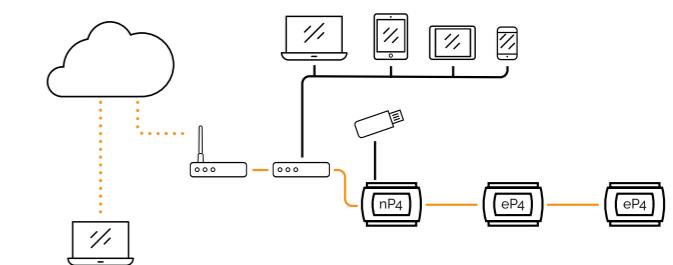
Versatile
Functionalities can be expanded by using additional modules, which increase the number of available resources, allowing the management of even more complex machines.



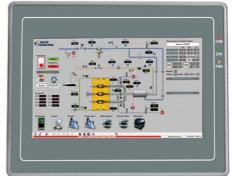
Connected
It connects machines and aligns them with the requirements necessary to access incentives and super-amortization provided by the 4.0 industry. Thanks to remote management, it reports real-time alarms, malfunctions and useful data for preventive maintenance.



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
7"	9.7"	9.7"	12.1"	15"
128	512	512	256	256
128	256	256	256	256
16M	16M	16M	16.2 M	16.2M
			•	•
•	•	•	•	•
			•	•
2	•	2	•	•
•	•	•	•	•
				•
•	•	•		
			•	•
			•	•
•	•	•		
			•	•
			•	•
•	•	•		
			•	•
			•	•
•	•	•	•	•
			•	•
			•	•
•	•	•	•	•
			•	•
			•	•

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		•	•	•

FEATURES	COUNTERS			POWER LIMITERS	
	TC34	TC49	TC73	TP34	TP49
Dimensions (mm)	78 x 35	48 x 48	72 x 72	78 x 35	48 x 48
Display	•	•	•	•	•
Input	•	•	•	•	•
Outputs	2	2	2	2	2
Power supply	•	•	•	•	•
	•	•	•	•	•
	•	•	•	•	•
Multiscale - Multifunction				•	•
Multifrequency - Multifunction					
NFC programming					
40 daily and/or weekly programs					
Manual activation of the outputs, Daylight Saving Function, Random Function					
CE certification	•	•	•	•	•

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 Universal input J-K-S-R-T + IR + PTC-NTC J-K-S-R-T + IR + Pt100 0/4... 20 mA o 0/1... 5 V o 0... 10V Δ T Pt100 Digital Strain gauge (5V/hV)	• • • • • • • 2	• • • • • • • •
Main input	0/4... 20 mA o 0/1... 5 V o 0... 10V	• •	• •
Auxiliary input	0/4... 20 mA o 0/1... 5 V o 0... 10V		
Outputs	Relay or voltage for SSR drive outputs Analogue current or voltage outputs	4 1	4 2
Measuring retransmission	12 Vac/Vdc 20... 30 Vac/Vdc 24 Vac/Vdc 100... 240 Vac	• • • •	• • • •
Power supply			
RS485 Modbus	• • •	• • •	• • •
Mathematical functions			
MIN, MAX, HOLD PV, HOLD PICCO, MEDIA functions			
CE certification	• •	• •	• •
UL certification			

FEATURES	K48V	K85V	C1	J1	J3	J5
Dimensions (mm)	48 x 48	70 x 84 4 DIN module	24 x 48	96 x 48	96 x 48	96 x 48
Display	• • • • • 2	• • • • 2	• • • 3	• • 3	• • 3	• • 3
Main input	0/4... 20 mA o 0/1... 5 V o 0... 10V Δ T Pt100 Digital Strain gauge (5V/hV)	0/4... 20 mA o 0/1... 5 V o 0... 10V Δ T Pt100 Digital Strain gauge (5V/hV)	0/4... 20 mA o 0/1... 5 V o 0... 10V Δ T Pt100 Digital Strain gauge (5V/hV)	0/4... 20 mA o 0/1... 5 V o 0... 10V Δ T Pt100 Digital Strain gauge (5V/hV)	0/4... 20 mA o 0/1... 5 V o 0... 10V Δ T Pt100 Digital Strain gauge (5V/hV)	0/4... 20 mA o 0/1... 5 V o 0... 10V Δ T Pt100 Digital Strain gauge (5V/hV)
Auxiliary input	0/4... 20 mA o 0/1... 5 V o 0... 10V					
Outputs	Relay or voltage for SSR drive outputs Analogue current or voltage outputs	4 1	4 2	4 1	4 1	4 1
Measuring retransmission	12 Vac/Vdc 20... 30 Vac/Vdc 24 Vac/Vdc 100... 240 Vac	• • • •	• • • •	• • • •	• • • •	• • • •
Power supply						
RS485 Modbus	• • •	• • •	• • •	• • •	• • •	• • •
Mathematical functions						
MIN, MAX, HOLD PV, HOLD PICCO, MEDIA functions						
CE certification	• •	• •	• •	• •	• •	• •
UL certification						

ANALOG/DIGITAL I/O MODULES



FEATURES	D7	D9	D8	X30A	EP4	XP4
Dimensions (mm)	22.5 x 99	22.5 x 99	22.5 x 99	87.5 x 28	105 x 110 6 DIN module	105 x 110 6 DIN module
Inputs	<p>Thermocouples: L, J, E, T, K, N, S, R, B, Ni-NiMo, W3, W5 Thermoresistances: PT100 Linear signals: 0/ho ... 50 mV; 0/4 ... 20 mA (shunt) Infrared sensors or settable on special scales (custom)</p> <p>Universal (mA, V, TC, RTD, NTC, Potentiometer)</p> <p>PTC (KTY 81-121, 990 W @ 25°C), NTC (103AT-2, 10 KW @ 25°C) or Pt1000 (1KW @ 0°C)</p>	1	2		4	0...12
	<p>24 Vdc digital</p> <p>Digital for fast counting</p> <p>Relay or voltage for SSR drive outputs</p> <p>Logic, not isolated</p>	1	1	2	8...16	0...8
Outputs	<p>0/4... 20 mA</p> <p>Analogue current or voltage outputs</p> <p>Digital</p>	2	2	4	0...4	0...8
Signal retransmission	•			2	8...16	
RS485				•	•	•
Isolated RS485, Modbus-Jbus protocol	•	•	•			
Modbus RTU protocol						•
Power supply	<p>12... 24 Vac/Vdc, 100... 240 Vac</p> <p>24 Vac (-25...+12%), 24Vdc (-15...+25%) (50/60Hz)</p> <p>24 Vdc</p>	•	•	•	•	•
CE + UL (listed) certification				•		
CE + UL certification				•		•

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		
	Thermocouples J,K,N,S,R,T	•	•
	RTD PT100 and PT1000	•	•
	Current (mA)	•	
Inputs	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	08AO	08DO
	76 x 110 Single module			
	8	8	8	8
	•	•	•	
				•
	•	•	•	
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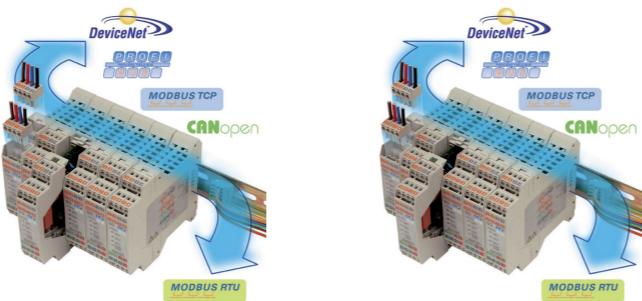
DIGITAL I/O MODULES



FEATURES		DI				DM
		16LV	16HV	32LV	08TS	
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					
Power supply	6A					
	24 Vdc	•	•	•		•
CanOpen protocol		•	•	•		•
Modbus RTU protocol		•				•
CE certification + UL (listed)		•	•	•		•



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	•
	TTL/RS485 – NOT ISOLATED	
Functions	Multi master	2
	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/dc	•
	Self-powered (Power supply given by the instrument to which it is connected)	
CE certification + UL (listed)	•	•

WEBSACADA DY5121	AET1	ARS1
70 x 85 4 DIN module		
•	•	•
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	
	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	-20... + 150°C (PVC cable) -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)	Ø 4-5-6-8
Sheath dimensions (mm)						
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)					
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, flange Ø 79, others on request (ceramic sensor); 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 S0, 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 S0, 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 / ATT1T (ISOLATED VERSION)
Dimensions (mm)	Ø 45 x 23
Inputs	RTD (Pt100, Pt1000, 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 EIIRLIBGPMAT2018
Dimensions (mm)	Ø 20 x 32.5	Ø 12.7 x 36.5	Ø 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)
Housing material	ABS		Inox stainless steel	
Protection degree			IP65	

HUMIDITY TRANSMITTERS



FEATURES	TRH20/ TRH22	TRH21/ TRH42	H2	H5
Dimensions (mm)	Ø 20 x 185	80 x 122 , depth 50	Case: Ø 85 x 58 mm. Stems: for wall mounting: 130 x Ø 20 mm; for duct mounting: 120 or 250 x Ø 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...1V
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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