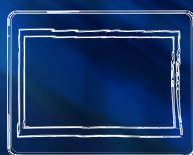


CONTROL OF THE INDUSTRIAL E COMMERCIAL REFRIGERATION.



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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THERMOSTATS AND CONTROLLERS



FEATURES		E30	E31	E33	Z31A	Z31	Z31E	Z31Y	Y39	Y39C	Y39E	Y39W	Y33
Dimensions (mm)		78 x 35			78 x 35				78 x 35				
Depth (mm)		34	64 or 75.5 depending on terminals type										
Display	Single	•	•	•	•	•	•	•	•	•	•	•	•
	Double												
Digit		3	3	3	3	3	3	3	3	3	3	3	3
“Sensitive Touch” keyboard					•	•	•	•	•	•	•	•	•
Input	NTC	2	2	3								3	
	PTC-NTC				1	1	2	2	3		2		
	PTC-NTC-4... 20 mA												
	PTC-NTC-PT1000									3			3
	NTC-Pt1000												
	Digital	1	1	1			1	1	1	1	1	1	1
Relay outputs		1	1	3	1	1	2	2	3	3	3	3	3 (*)
Power supply	12 Vac/Vdc				•	•	•	•	•	•	•	•	
	12... 24 Vac/Vdc				•	•	•	•	•	•	•	•	•
	24 Vac/Vdc				•	•	•	•	•	•	•		
	100... 240 Vac				•	•	•	•	•	•	•	•	
	115 Vac or 230 Vac	•	•	•									•
Control	ON/OFF	•	•	•	•	•	•	•	•	•	•		•
ENERGY SAVING functions		•	•	•			•				•		•
Defrost at intervals by stopping compressor		•	•			•							
Defrosting control: at intervals time, at reaching temperature, at programmed times by stopping compressor, by electrical heating or hot gas/reverse cycle				•			•	•	•	•	•		•
REAL TIME CLOCK function										•			
HACCP functions													
Single/Dual Loop												•	
Temperature + humidity control													
RS485 on board													
CE certification		•	•	•	•	•	•	•	•	•	•	•	•
UL certification			•	•	•	•	•	•	•	•	•	•	•

(*) Y33: 1 output is 30A relay type.



X33H	X30	X34	TLZ12P	TLY25	TLY26	TLY29
78 x 35			78 x 35			
64 or 75.5 depending on terminals type						
		•	•	•	•	•
•						
4		3	4	3	3	3
		•				
				2	2	2
3						
	4	4				
			1			
1+2	2	2+2	1	1	1	1
4	4	4	2	4	4	3
	•		•	•	•	•
		•				
			•			
•	•	•	•	•		•
•	•	•	•	•	•	•
		•				
			•			
•		•		•	•	•
		•		•	•	•
		•				
•						
		•			•	
•		•	•	•	•	•
			•	•	•	•

THERMOSTATS AND CONTROLLERS



FEATURES		W09	W09Y	W09C	E51A	E51
Dimensions (mm)		75 x 122			68 x 35	
Depth (mm)		34			64 or 75.5 depending on terminals type	
Display	Single	•	•	•	•	•
	Double					
Digit		3	3	3	3	3
"Sensitive Touch" keyboard						
Input	NTC					
	PTC-NTC	1	3	3	1	1
	PTC-NTC-4... 20 mA					
	PTC-NTC-PT1000					
	NTC-Pt1000					
Relay outputs	Digital		1	1		
		1	3	3	1	1
Power supply	12 Vac/Vdc				•	•
	12... 24 Vac/Vdc					
	24 Vac/Vdc					
	100... 240 Vac	•	•	•		
	115 Vac or 230 Vac				•	•
Control	ON/OFF	•	•	•	•	•
ENERGY SAVING functions						
Defrost at intervals by stopping compressor		•				•
Defrosting control: at intervals time, at reaching temperature, at programmed times by stopping compressor, by electrical heating or hot gas/reverse cycle			•	•		
REAL TIME CLOCK function				•		
HACCP functions						
Single/Dual Loop						
Temperature + humidity control						
RS485 on board						
CE certification		•	•	•	•	•
UL certification						

(*) B05: it is only the power unit; to obtain the measuring visualization it must be connected to external displays P03 or P05.



TLY35	TLZ35	TLW24	TLB29	B05+P03	B05+P05
70 x 84 4 DIN module		185 x 38	96 x 50	92 x 92 + 96 x 50	92 x 92 + 135 x 97
60		78	60	27.8 + 22.5	
•	•	•	•	(*)	(*)
4	4	4	2	2	2
			•	•	•
2	1	2	2		
				3	3
1	1	1	2	2+1	2+1
4	2	4	3	4	4
•	•				
		•			
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•
•		•	•	•	•
•					
•					
•	•	•	•	•	•
•	•	•	•	•	•

INDICATORS



FEATURES		E50	E30V	Z31V	K31V
Dimensions (mm)		64 x 31	78 x 35	78 x 35	78 x 35
Single display		•	•	•	•
Digit		2 1/2	3	3	4
Input	NTC	•	•		
	PTC-NTC			•	
	J-K-S-R-T + IR + PTC-NTC				•
	J-K-S-R-T + IR + Pt100				•
	0/4... 20 mA, 0/1... 5 V, 0... 10V				•
	Digital				2
Outputs			1	1	4
Power supply	12 Vac/Vdc		•	•	•
	12... 24 Vac/Vdc			•	
	24 Vac/Vdc		•		•
	230 V (Double isolation probe)	•			
	115, 230 Vac		•		
	100... 240 Vac			•	•
	12 Vdc (by the instrument)				
	1.5 Vdc battery				
Solar cell					
RS485 Modbus					•
CE certification		•	•	•	•
UL certification				•	•



K38V	K48V	K85V	E51V	TLCD	TVRY	X31L
78 x 35	48 x 48	B/DIN	68 x 35	Varie	64 x 31	78 x 35
•	•	•	•	•	•	•
4	4	4	3	2	2 1/2	3
			•			
•	•	•				
•	•	•				
•	•	•				
	2	2				10
2	3	3				1
			•			
•	•	•				•
•	•	•	•			•
					•	
				•		
		•				
•	•	•	•	•	•	•
•	•	•				

SPECIAL CONTROLLERS



FEATURES		K31D	Y39D
Dimensions (mm)		78 x 35	78 x 35
Single display		•	•
Digit		4	3
Inputs	Inputs number	2	2
	PTC-NTC	•	•
	Pt1000		•
	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		
Outputs	Digital	2	1
	Relay	4	3
	Voltage 12... 24 Vdc and Vdc x SSR (10mA/Vdc) output		
Power supply	12 Vac/Vdc	•	•
	12... 24 Vdc		
	24 Vac/Vdc	•	•
	100... 240 Vac	•	•
Control	ON/OFF		•
	ON/OFF, Neutral zone, single and double action PID	•	
	Peltier cells: double action PID, FAST Autotuning algorithms, Selftuning, Fuzzy overshoot control		
RS485		•	
Control function	Differential	•	•
	For Peltier cells		
	For milk tanks		
CE certification		•	•
UL certification		•	•



TLS35	W09D	TLK33	TLJ29M	TLJ35M
70 X 84 4 DIN module	75 x 122	78 x 35	78 x 35	70 X 84 4 DIN module
•	•	•	•	•
4	3	4	4	4
2	3	1	1	1
•	•			
		•		
		•		
		•		
1	1	2	1	1
3	3		3	3
		2		
•			•	•
		•		
•			•	•
•	•		•	•
•	•		•	•
		•		
		•		
•	•			
		•	•	•
•	•	•	•	•
		•		

PAC SYSTEM

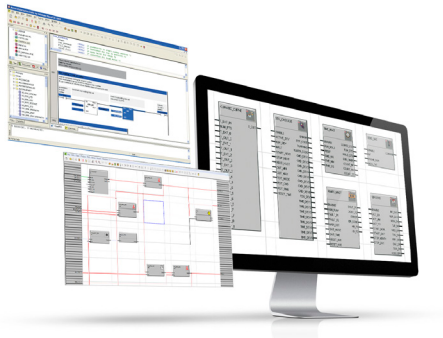


FEATURES		NP4	EP4
Dimensions (mm)		105 X 110 6 DIN module	105 X 110 6 DIN module
Inputs	Universal (mA, V, TC, RTD, NTC, Potentiometer)	4 (16 bit)	4 (16 bit)
	24 Vdc digital	8...16	8...16
	Digital for fast counting	2	2
Outputs	Relay or voltage for SSR drive outputs	0...4	0...4
	Analogue current or voltage 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 (certification available within the first half of 2019)		•	•



XP4	AC3NP
105 X 110 6 DIN module	72 X 144 8 DIN module
12 (12 bit)	4 (16 bit)
0...8	10
0...8	0...4
0...2 (0...10V only)	0...4
	8
	•
•	•
•	•
	•
	•
•	•
Slave	Master/Slave
	Server
	•
	•
•	•
•	•

nanoPAC



PROGRAMMING

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

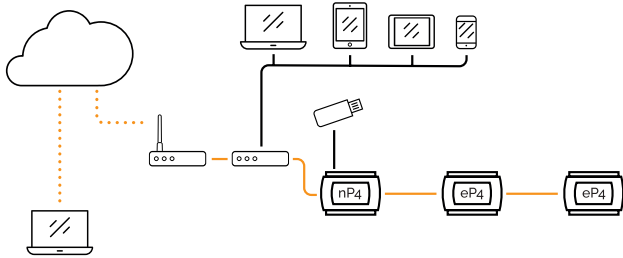
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Easy
It allows implementation of new functions or values to be monitored, thanks to its open programming logic and wide availability of functional blocks, ready to use.
- 

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 35	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	•	•
•	•	•	•	•
				•
•	•	•		
			•	•
•	•	•		
	•			
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•

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
	Digital for fast counting	
Outputs	Relay or voltage for SSR drive outputs	2
	Logic, not isolated	
	0/4... 20 mA	1
	Analogue current or voltage outputs	
Outputs	Digital	
Signal retransmission		•
RS485		
Isolated RS485, Modbus-Jbus protocol		•
Modbus RTU protocol		
Power supply	24 Vac (-25...+12%), 24Vdc (-15...+25%) (50/60Hz)	•
	24 Vdc	
CE + UL (listed) certification		•
CE + UL certification (certification available within the first half of 2019)		



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
76 x 110 Single module	76 x 110 Single module	76 x 110 Single module	76 x 110 Single module
8	8		
		8	8
•	•	•	
•	•	•	•
	•		•
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	•

DIGITAL I/O MODULES

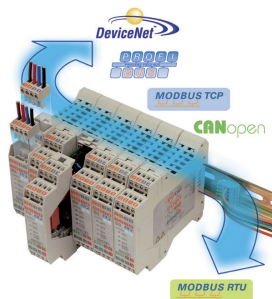


FEATURES		DI			DM
		16LV	16HV	32LV	08TS
Dimensions (mm)		76 x 110 Single module	76 x 110 Single module	152 x 110 Double module	76 x 110 Single module
Channels	Input	16	16	32	8
	Outputs				8
Inputs	24 Vdc	•		•	•
	120 Vac		•		
Outputs	24 Vdc				•
	250 Vac				
	Relay				
	2A				
	6A				
Power supply	24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

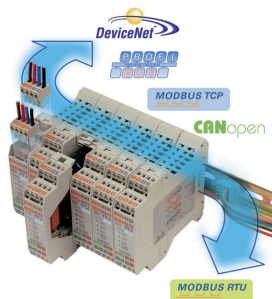


		DM		DO				
		16TS	32TS	16TS	16TP	32TS	04RL	04TX
		76 x 110 Single module	152 x 110 Double module	76 x 110 Single module	76 x 110 Single module	152 x 110 Double module	76 x 110 Single module	76 x 110 Single module
		8	16					
		8	16	16	16	32	4	4
		•	•	•	•	•		
		•	•	•	•	•		•
							•	
							•	
					•		•	
								•
		•	•	•	•	•	•	•
		•	•	•	•	•	•	•
				•				
		•	•	•	•	•	•	•

CONVERTERS – GATEWAY



FEATURES		DX
Dimensions (mm)		22.5 x 99 Deltadue module
Protocol	Modbus RTU	•
	CanOpen	
	Profibus DP	•
	DeviceNet	•
	Modbus TCP	
Functions	Multi master	2
	Instruments Backup (max. 32)	•
	Data transfer (binding)	•
	E-mail and SMS	
	Webserver	
Power supply	TCP Server	
	24 Vac/dc	•
Self-powered (Power supply given by the instrument to which it is connected)		
CE certification + UL (listed)		•



DY	DY5121	AET1
22.5 x 99 Deltadue module	70 x 85 4 DIN module	28 x 87
•		
•	•	•
8	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, 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 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



FEATURES	ZIS 01	ZIS 1X	ZIS 3X
Dimensions (mm)	Ø 20 x 32.5	Ø 12.7 x 36.5	Ø 12.7 x 44.7
Temperature range	0... 200 °C	0... 650 °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	H1	H3	H5	HL	HS
Dimensions (mm)	Ø 20 x 185	80 x 122 , prof. 50	100 x 100			Ø 85 x 58	Ø 30 x 258
Acquisition	Humidity	Humidity + temperature			Humidity + temperature, Differential	Humidity + temperature	Humidity + temperature
Display (optional)			●	●	●		
Humidity range	5... 95% RH	0... 100% RH	0.0... 100.0% RH	0.0... 100.0% RH	0.0... 100.0% RH	0... 100% RH	0... 100% RH
Temperature range	-10... +70 °C (TRH22 only)	-40... +60 °C (TRH42 only)	-30... +100°C;	-30... +100°C;	-30... +100°C;	-30... +100°C;	-40...+60°C, -20...+30°C
Output	4... 20 mA	4... 20 mA	0/4... 20 mA; 0... 10V;	0/4... 20 mA; 0... 10 V; 0... 1 V; 0... 5 V	0/4...20 mA; 0...10V; 0...1 V	4... 20 mA	4... 20 mA
Power supply	8... 24 Vdc	9... 30 Vdc	18...27 Vac or 20... 30 Vdc			12... 30 Vdc	10... 30 Vdc
Protection degree	IP65		IP66				

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, ...

THE GROUP

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