

Electronic Products

ASCON Series Analog Signal Converters



Type			ASCON 311	ASCON 321
Definiton			Configurable Signal Converter	Configurable PT100 Converter
Order Number			602300	602310
Casing Width(mm)			17,5	17,5
Connections			Screw terminal	Screw terminal
Input	Sensor Type		DC Current and Voltage(mV,V,mA)	
	PT100 connection Type		-	
	Measuring Range		0...60mV -6...60mV 0...5mA 0...100mV -100...100mV 0...10mA 0...250mV -250...250mV 0...20mA 0...500mV -500...500mV -5...5mA 0...1V -1...1V -10...10mA 0...2V -2...2V -20...20mA 0...2,5V -2,5...2,5V 4...20mA 0...5V -5...5V 0...24mA 0...10V -10...10V 4...24mA 0...20V -20...20V 0...12mA	
	Sensor excitation current		-	
	Maximum input signal		30V DC or 50mA DC	
			-150°C...800 °C Configurable	
Output	Output Signal		0...5V 0...20mA 5...0V 20...0mA 0...10V 4...20mA 10...0V 20...4mA -5...5V -20...20mA	
	Measurement Error		< %0.2 Full scale	
	Max. Load		≤ 600Ω(Current Output) ≥10kΩ (Voltage Output)	
	Max. Output Signal		12V (Voltage Output) 24mV (Current Output)	
Supply	Voltage	DC	11-30V DC	11-30V DC
Isolation			3 way-1,5kV RMS	3 way-1,5kV RMS
Power Consumptionr			≤ 25mA @ 24V (ILOAD =0mA, I =0mA)	≤ 25mA @ 24V (ILOAD =0mA, I =0mA)
Temperature coeff icient			≤ %0.004/°C	≤ %0.02/°C

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ASCON 331	ASCON 341	ASCON 352
Configurable Thermocouple Converter	Configurable Frequency Converter	Signal-Temperature Converter with RS485
602320	602 330	602400
17,5	17,5	17,5
Screw terminal	Screw terminal	Screw terminal
Thermocouple(J,K,E,R,S)	2-3 wire PNP/NPN, Namur, Push-Pull, Dry contact	mV,V,mA PT100(2,3,4wire) Thermocouple(J,K,E,R,S)
-	-	2,, 3 or 4 wire
J: -200°C ... 1200°C configurable K: -200°C ... 1350°C configurable E: -200°C ... 950°C configurable R: -50°C ... 1750°C configurable S: -50°C ... 1750°C configurable	0 .. 100 kHz configurable via knobs 0...150 kHz can be learned from input signal	Signal -30 signal combinations; 4-20mA,0-10V,etc. PT100 -150°C...800 °C Configurable Thermocouple J: -200°C ... 1200°C configurable K: -200°C ... 1350°C configurable E: -200°C ... 950°C configurable R: -50°C ... 1750°C configurable S: -50°C ... 1750°C configurable
-	-	<0.5mA
-	Namur: 1.7 mA NPN: 6.5 V PNP: 6,7 V	30V DC or 50mA DC
0...5V 0...20mA 5...0V 20...0mA 0...10V 4...20mA 10...0V 20...4mA -5...5V -20...20mA	0 .. 5V, 0 .. 10V, -10 .. 10V, 0 .. 20mA, 4 .. 20mA, -20 .. 20mA	RS485
3.6mA .. 23.6mA	< %0.2 Full scale	3.6mA .. 23.6mA
< %0.2 Full scale	≤ 600Ω(Current Output) ≥10kΩ (Voltage Output)	< %0.1 Full scale
≤ 600Ω(Current Output) ≥10kΩ (Voltage Output)	12V (Voltage output), 24mA (Current output)	-
11-30V DC	18 .. 30V DC	11-30V DC
3 way-1,5kV RMS	1,5kVRMS	3 way-1,5kV RMS
≤ 25mA @ 24V (ILOAD =0mA, I =0mA)	≤ 30mA @ 24V (I LOAD AUX =0mA, I =0mA)	≤ 15mA @ 24V (ILOAD =0mA)
≤ %0.004/°C	≤ %0.004/°C	≤ %0.02/°C

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[illegible]

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< 150ms	0 - 20 Hz: < 1050 msec 20 - 100 Hz: < 550 msec 100 Hz: < 300msec	<10ms
Failure Status The situation of input signal is at least 10 % different than adjusted value LED Indication Err: 	M1 M2 leds indication combinations	Failure Status Voltage output mode: short circuit LED Indication Err: 
Over voltage and reverse polarity protection	Over voltage and reverse polarity protection	Over voltage and reverse polarity protection
DC+,DC-	DC+,DC-	DC+,DC-
TC1+ and TC1-	PNP : 4(+), 2(-), Sensor Supply : 1 or external NPN : 3(+), 2(-), Sensor Supply : 1 or external Namur : 3(+), 2(-) Push Pull : 4(+), 2(-) Dry Contact : 4(+), Sensor Supply : 1	Signal mV Input : 2(+), 3(-) mA Input : 3(+), 1(-) V Input : 4(+), 1(-) PT100 4 and 3 (2 wire connection) 4 and 2,3(3wire connection) 1,4and2,3(4wireconnction) Thermocouple TC connection: 4,5
V,Gnd (Voltage Output) I,Gnd (Current Output)	V,Gnd (Voltage Output) I,Gnd (Current Output)	D+, Gnd, D-
-	-	MODBUS RTU
-	-	RS485
-	-	1200 9600 57600 2400 19200 4800 38400(Default)
-	-	None(Default) Even Odd
-20 to +60 °C	-20 to +60 °C	-20 to +60 °C
-40 to +75 °C	-40 to +75 °C	-40 to +75 °C
Max.95% (no condensation)	Max.95% (no condensation)	Max.95% (no condensation)
IP20	IP20	IP20
42	42	42
Rail mounted	Rail Mounted	Rail mounted
any	any	any

