Inquiry, quotation and order form for actuator controls AUMATIC Explosion-proof according to ATEX directive 94/9/EC

ACEx 01.1

Actuator controls AUMATIC ACEx 01.1 for controlling AUMA multi-turn actuators AUMA NORM SA(R)ExC 07.1 – SA(R)ExC 16.1 and part-turn actuators AUMA NORM SGExC 05.1 – SGExC 12.1.
Reference documents: Product description and technical data Actuator controls AUMATIC

☐ **Inquiry** _____
☐ **Quotation** _____
☐ **Order** _____
Order date : _____
Delivery date : _____
Quantity:____ **ACEx 01.1**

Project _____
Code _____
Shipping by:
☐ Forw. agent
☐ Sea freight ☐ Air freight
☐ _____

For version with fieldbus interfaces see separate order form

	Ordering code	Prices in €
Basic price	ACExC 01.1	_____
Supply voltage / motor voltage		
3-phase AC voltages/frequencies		
☐ ***400/50*** ☐ 220/50 ☐ 230/50 ☐ 240/50 ☐ 380/50		
☐ 415/50 ☐ 440/60 ☐ 460/60 ☐ 480/60 ☐ 500/50		
1-phase AC voltages/frequencies (only for SGExC)		
☐ 110/60 ☐ 115/60 ☐ 120/60 ☐ 220/50 ☐ 230/50 ☐ 240/50		
☐ other than standard _____		_____
☐ external 24 V DC supply of electronics	AC021.01	_____
Motor controls		
☐ ***Reversing contactors for motor power up to 1.5 kW***	AC010.01-W	
☐ Reversing contactors for motor power up to 7.5 kW	AC011.01-W	_____
Control		
☐ ***Control inputs OPEN – STOP – CLOSE – EMERGENCY, 24 V DC***	AC050.00	_____
☐ Control inputs OPEN – STOP – CLOSE – EMERGENCY, 115 V AC	AC050.31	_____
Self-retaining REMOTE ☐ included ☐ not included		
Voltage output		
☐ ***24 V DC, max. 100 mA for supply of the control inputs***	AC020.01	
☐ 115 V AC, max. 30 mA for supply of the control inputs (not in combination with PTC tripping device)	AC020.02	_____
Output signals		
☐ ***Standard with one common***		
M1 = End position OPEN **M2** = End position CLOSED **M3** = Remote		
M4 = Torque fault CLOSE **M5** = Torque fault OPEN		
Fault relay = fault 3 (phase failure, motor protection, torque fault)		
☐ Special (special configuration see page 3)		
M1 = M2 = M3 = M4 = M5 =		
Fault relay =		
☐ 5 programmable signal relays with potential-free NO/NC contacts without one common, max. 250V / 5 A	AC050._ _	_____
☐ **Positioner**		
Adaptive positioner with 0/4 – 20 mA input for nominal position value		
Including EMERGENCY input and MODE input for changeover of analogue / digital control	AC150.02	_____
☐ 0 – 20 mA ☐ 4 – 20 mA ☐ 20 – 0 mA ☐ 20 – 4 mA		
☐ **Process controller PID**		
Process controller PID with adaptive positioner, 0/4 – 20 mA input for nominal process value and actual process value		
Including EMERGENCY input and MODE input for changeover of analogue / digital control	AC150.04	_____
☐ 0 – 20 mA ☐ 4 – 20 mA ☐ 20 – 0 mA ☐ 20 – 4 mA		
☐ **Position feedback** **Position transmitter in actuator**		
☐ 0 – 20 mA ☐ 4 – 20 mA ☐ 20 – 0 mA ☐ 20 – 4 mA ☐ Potentiometer ☐ RWG ☐ MWG		
☐ **Torque feedback (in combination with MWG in actuator)**		
☐ 0 – 20 mA ☐ 4 – 20 mA		
Type of seating end pos. CLOSED **Type of seating end pos. OPEN**		
☐ Limit seating ☐ Torque seating ☐ Limit seating ☐ Torque seating		

Total carried forward to page 2 _____

Note: The respective standard version is printed in ***semibold italics***

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Issue **1.04**
Y003.517/002/en

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	Ordering code	Prices in €
Local controls		
Self-retaining Local ☐ included ☐ not included		
☐ Release of the local controls via the additional control input RELEASE	AC035.05	_____
☐ Protection cover, lockable	37-AC	_____
☐ Protection cover with indicator glass, lockable	37-S-AC	_____
☐ ***5 indication lights: end position CLOSED (yellow), torque fault CLOSE (red), torque fault OPEN (red), motor protection tripped (red), end postion OPEN (green)***		
☐ 5 programmable indication lights, special colours: end position CLOSED (green), torque fault CLOSE (blue), torque fault OPEN (yellow), motor protection tripped (white), end position OPEN (red)	AC031.10	_____
Motor protection		
☐ ***Motor temperature monitoring via PTC tripping device (PTC thermistors in actuator motor)***		
☐ Thermal overload relay (instead of PTC thermistors in actuator motor)	AC017._ _	_____
Enclosure protection		
☐ ***IP 67***	IP67	
☐ IP 68	IP68	_____
☐ Cable glands for enclosure protection IP 67 or IP 68. Please always state cable diameters _____		on request
Corrosion protection		
☐ ***KN incl. painting in standard colour***	KN	_____
☐ KS incl. painting in standard colour (recommended for installation in aggressive atmosphere, with a moderate pollutant concentration)	KS	_____
☐ KX incl. painting in standard colour (recommended for installation in extremely aggressive atmosphere, with a high pollutant concentration)	KX	_____
Colour		
☐ other than standard colour (for available colours please contact AUMA) Colour _____		_____
☐ Special primer / special finish coat _____		_____
Accessories		
☐ Wall bracket for mounting of AUMATIC separate from actuator, including plug/ socket connector. Connecting cables on request.	39.1	_____
☐ Programming software COM-AC incl. interface cable	AC200.01	_____
Electrical connection		
Ex-plug/socket connector with terminal board		
☐ ***M-threads 1 x M20 x 1.5 / 2 x M25 x 1.5***	KP-31	included in basic price
☐ M-threads 1 x M20 x 1.5 / 2 x M25 x 1.5 / 1 x M32 x 1.5	KPH-148	
☐ Pg-threads 1 x Pg 13.5 / 2 x Pg 21	KP-21	without price adder
☐ Pg-threads 1 x Pg 13.5 / 2 x Pg 21 / 1 x Pg 29	KPH-26	
☐ NPT-threads 2 x ¾" NPT / 1 x 1¼" NPT	KPH-80	_____
☐ G-threads 2 x G ¾" / 1 x G 1" / 1 x G 1¼	KPH-178	_____
Ex-plug-in terminal connection		
☐ M-threads 1 x M20 x 1.5 / 1 x M25 x 1.5 / 1 x M32 x 1.5	KES-105	_____
☐ Pg-threads 4 x Pg 13,5 / 2 x Pg 21	KES-03	_____
☐ NPT-threads 2 x ¾" NPT / 1 x 1¼" NPT	KES-80	_____
☐ G-threads 2 x G ¾" / 1 x G 1¼"	KES-179	_____
Electrical connection in flameproof enclosure - EEx d		
☐ M-threads 2 x M25 x 1.5 / 1 x M32 x 1.5	KES-108-EExD	_____
☐ NPT-threads 4 x 1" NPT	KES-08-EExD	_____
☐ Special threads _____		_____
☐ Parking frame for plug, when removed from actuator	95	_____
☐ Protection cover for plug compartment (when plug is removed)	96.1	_____
Wiring diagram		
ACP _____		
KMS ___ TP _____		

Total carried forward from page 1 _____

Price total / unit _____

x quantity ____ _____

Price total _____

Note: The respective standard version is printed in ***semibold italics***

Please state requested value (0...38) on **page 1** under Output signals: **Special**

Fault signal relays

0	Fault 1	Fault + Not ready
1	Fault 2	Fault + Not ready without torque fault
2	Fault 3	Fault
3	Fault 4	Fault without torque fault
4	Fault 5	Fault + Not ready + Warning
5	Fault 6	Fault + Not ready without thermal fault
6	Fault 7	Fault + Not ready without torque fault + without thermal fault
7	Fault 8	Fault without thermal fault
8	Fault 9	Fault without torque fault and without thermal fault
9	Fault 10	Fault + Not ready + Warnings without thermal fault

Signal relays

0	No signal	Relay is not used
1	End position CLOSED	Signal LSC (WSR) or LSC (WSR) + TSC (DSR) (according to type of seating)
2	End position OPEN	Signal LSO (WOEL) or LSO (WOEL) + TSO (DOEL) (according to type of seating)
3	Running CLOSE	Actuator is running logically CLOSE
4	Running OPEN	Actuator is running logically OPEN
5	Actuator moving	Actuator is running from LOCAL, REMOTE, or in manual operation (without position transmitter only LOCAL or REMOTE operation is indicated)
6	LSC (WSR)	Limit switch CLOSE operated
7	LSO (WOEL)	Limit switch OPEN operated
8	TSC (DSR)	Torque switch CLOSE operated
9	TSO (DOEL)	Torque switch OPEN operated
10	Thermal fault	Motor protection has tripped
11	Torque fault (CLOSE)	Torque fault in direction CLOSE occurred
12	Torque fault (OPEN)	Torque fault in direction OPEN occurred
13	Torque fault (general)	Torque fault CLOSE or OPEN (combined signal)
14	Setpoint E1 loss	Loss of setpoint
15	Feedback E2 loss	Loss of actual value feedback
16	Spare	
17	Torque E6 loss	Loss of MWG
18	Warning operating time	The programmed max. operating time for an open-close operation has been exceeded
19	Warning starts/run	The max. number of cycles/h or the max. running time/h has been exceeded.
20	LOCAL switch position	Selector switch is in position LOCAL
21	REMOTE switch position	Selector switch is in position REMOTE
22	OFF switch position	Selector switch is in position OFF
23	REMOTE mode	Operation mode REMOTE active
24	SETPOINT mode	Operation mode SETPOINT active
25	Intermediate position 1	Signalising intermediate position 1 reached
26	Intermediate position 2	Signalising intermediate position 2 reached
27	Intermediate position 3	Signalising intermediate position 3 reached
28	Intermediate position 4	Signalising intermediate position 4 reached
29	Stepping mode	Programmed stepping range has been reached
30	Closing blink	The signal curve is according to the optical signal End position CLOSED at the local controls, including the programmed blinker signal
31	Opening blink	The signal curve is according to the optical signal End position OPEN at the local controls, including the programmed blinker signal
32	Fault indication	Faults; includes: internal faults, torque faults, phase failure, thermal fault
33	Warning indication	Warnings; includes: internal warnings, operating time warning, warning starts/run, no reference operation, losses of signal
34	Not ready indication	No external control possible
35	Setpoint reached	Actuator is in nominal position
36	Loss of phase	One phase is missing
37	I/O1 Analog IN2 loss	Loss of signal at parallel interface analogue input 2
38	I/O1 Analog IN1 loss	Loss of signal at parallel interface analogue input 1