



**Automatización Eléctrica**  
Especialistas en Automatización

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### High performance & simplicity



### Ordering information

#### E5CC (all models 3 auxiliary outputs)

Output	Option No.	Fixed option	Order code	
			110-240 VAC	24 VAC/VDC
Out1: Relay Out2: non	—	—	E5CC-RX3A5M-000	E5CC-RX3D5M-000
	001	Event input 2, Heater burnout SSR defect detection	E5CC-RX3A5M-001	E5CC-RX3D5M-001
	003	Communication 3-phase heater alarm	E5CC-RX3A5M-003	E5CC-RX3D5M-003
	005	Event input 4	E5CC-RX3A5M-005	E5CC-RX3D5M-005
	006	Event input 2, Transfer output	E5CC-RX3A5M-006	E5CC-RX3D5M-006
	007	Event input 2, Remote SP	E5CC-RX3A5M-007	E5CC-RX3D5M-007
	—	—	E5CC-QX3A5M-000	E5CC-QX3D5M-000
Out1: Voltage (pulse) Out2: non	—	—	E5CC-QX3A5M-001	E5CC-QX3D5M-001
	001	Event input 2, Heater burnout SSR defect detection	E5CC-QX3A5M-003	E5CC-QX3D5M-003
	003	Communication 3-phase heater alarm	E5CC-QX3A5M-005	E5CC-QX3D5M-005
	005	Event input 4	E5CC-QX3A5M-006	E5CC-QX3D5M-006
	006	Event input 2, Transfer output	E5CC-QX3A5M-007	E5CC-QX3D5M-007
	007	Event input 2, Remote SP	E5CC-QQ3A5M-000	E5CC-QQ3D5M-000
	—	—	E5CC-QQ3A5M-001	E5CC-QQ3D5M-001
Out1: Voltage (pulse) Out2: Voltage (pulse)	—	—	E5CC-QQ3A5M-003	E5CC-QQ3D5M-003
	001	Event input 2, Heater burnout SSR defect detection	E5CC-QQ3A5M-005	E5CC-QQ3D5M-005
	003	Communication 3-phase heater alarm	E5CC-QQ3A5M-006	E5CC-QQ3D5M-006
	005	Event input 4	E5CC-QQ3A5M-007	E5CC-QQ3D5M-007
	—	—	E5CC-CX3A5M-000	E5CC-CX3D5M-000
	004	Event input 2, Communication	E5CC-CX3A5M-004	E5CC-CX3D5M-004
	005	Event input 4	E5CC-CX3A5M-005	E5CC-CX3D5M-005
Out1: Linear current Out2: non	—	—	E5CC-CX3A5M-006	E5CC-CX3D5M-006
	006	Event input 2, Transfer output	E5CC-CX3A5M-007	E5CC-CX3D5M-007
	007	Event input 2, Remote SP	E5CC-CQ3A5M-000	E5CC-CQ3D5M-000
	—	—	E5CC-CQ3A5M-001	E5CC-CQ3D5M-001
	003	Communication 3-phase heater alarm	E5CC-CQ3A5M-003	E5CC-CQ3D5M-003
	005	Event input 4	E5CC-CQ3A5M-005	E5CC-CQ3D5M-005
	006	Event input 2, Transfer output	E5CC-CQ3A5M-006	E5CC-CQ3D5M-006
Out1: Linear current Out2: Voltage (pulse)	—	—	E5CC-CQ3A5M-007	E5CC-CQ3D5M-007
	001	Event input 2, Heater burnout SSR defect detection	E5CC-CQ3A5M-001	E5CC-CQ3D5M-001
	003	Communication 3-phase heater alarm	E5CC-CQ3A5M-003	E5CC-CQ3D5M-003
	005	Event input 4	E5CC-CQ3A5M-005	E5CC-CQ3D5M-005
	006	Event input 2, Transfer output	E5CC-CQ3A5M-006	E5CC-CQ3D5M-006
	007	Event input 2, Remote SP	E5CC-CQ3A5M-007	E5CC-CQ3D5M-007

**Note:** As well as these models other models are available on request. Please contact the local sales office for special requests.

## E5EC/E5AC (all models 4 auxiliary outputs)

Output	Option No	Fixed option	Order code	
			110-240 VAC	24 VAC/VDC
Out1: Relay	–	–	E5_C-RX4A5M-000	E5_C-RX4D5M-000
Out2: non	009	Event input 2, Communication 3-phase heater alarm	E5_C-RX4A5M-009	E5_C-RX4D5M-009
	010	Event input 4, Heater burnout SSR defect detection	E5_C-RX4A5M-010	E5_C-RX4D5M-010
	011	Event input 6, Remote SP Heater burnout SSR defect detection, Transfer output	E5_C-RX4A5M-011	E5_C-RX4D5M-011
Out1: Voltage (pulse)	–	–	E5_C-QX4A5M-000	E5_C-QX4D5M-000
Out2: non	009	Event input 2, Communication 3-phase heater alarm	E5_C-QX4A5M-009	E5_C-QX4D5M-009
	010	Event input 4, Heater burnout SSR defect detection	E5_C-QX4A5M-010	E5_C-QX4D5M-010
	011	Event input 6, Remote SP Heater burnout SSR defect detection, Transfer output	E5_C-QX4A5M-011	E5_C-QX4D5M-011
Out1: Relay	–	–	E5_C-RR4A5M-000	E5_C-RR4D5M-000
Out2: Relay	009	Event input 2, Communication 3-phase heater alarm	E5_C-RR4A5M-009	E5_C-RR4D5M-009
	010	Event input 4, Heater burnout SSR defect detection	E5_C-RR4A5M-010	E5_C-RR4D5M-010
	011	Event input 6, Remote SP Heater burnout SSR defect detection, Transfer output	E5_C-RR4A5M-011	E5_C-RR4D5M-011
Out1: Voltage (pulse)	–	–	E5_C-QQ4A5M-000	E5_C-QQ4D5M-000
Out2: Voltage (pulse)	009	Event input 2, Communication 3-phase heater alarm	E5_C-QQ4A5M-009	E5_C-QQ4D5M-009
	010	Event input 4, Heater burnout SSR defect detection	E5_C-QQ4A5M-010	E5_C-QQ4D5M-010
	011	Event input 6, Remote SP Heater burnout SSR defect detection, Transfer output	E5_C-QQ4A5M-011	E5_C-QQ4D5M-011
Out1: Voltage (pulse)	–	–	E5_C-QR4A5M-000	E5_C-QR4D5M-000
Out2: Relay	009	Event input 2, Communication 3-phase heater alarm	E5_C-QR4A5M-009	E5_C-QR4D5M-009
	010	Event input 4, Heater burnout SSR defect detection	E5_C-QR4A5M-010	E5_C-QR4D5M-010
	011	Event input 6, Remote SP Heater burnout SSR defect detection, Transfer output	E5_C-QR4A5M-011	E5_C-QR4D5M-011
Out1: Linear current	–	–	E5_C-CX4A5M-000	E5_C-CX4D5M-000
Out2: non	004	Event input 2, Communication	E5_C-CX4A5M-004	E5_C-CX4D5M-004
	005	Event input 4	E5_C-CX4A5M-005	E5_C-CX4D5M-005
	013	Event input 6, Remote SP, Transfer output	E5_C-CX4A5M-013	E5_C-CX4D5M-013
	014	Event input 4, Communication Remote SP, Transfer output	E5_C-CX4A5M-014	E5_C-CX4D5M-014
Out1: Linear current	–	–	E5_C-CC4A5M-000	E5_C-CC4D5M-000
Out2: Linear current	004	Event input 2, Communication	E5_C-CC4A5M-004	E5_C-CC4D5M-004
	005	Event input 4	E5_C-CC4A5M-005	E5_C-CC4D5M-005
	013	Event input 6, Remote SP Transfer output	E5_C-CC4A5M-013	E5_C-CC4D5M-013
	014	Event input 4, Communication Remote SP, Transfer output	E5_C-CC4A5M-014	E5_C-CC4D5M-014
Out1: Linear current	–	–	E5_C-CQ4A5M-000	E5_C-CQ4D5M-000
Out2: Voltage (pulse)	009	Event input 2, Communication 3-phase heater alarm	E5_C-CQ4A5M-009	E5_C-CQ4D5M-009
	010	Event input 4, Heater burnout SSR defect detection	E5_C-CQ4A5M-010	E5_C-CQ4D5M-010
	011	Event input 6, Remote SP Heater burnout SSR defect detection, Transfer output	E5_C-CQ4A5M-011	E5_C-CQ4D5M-011
Out1: Relay <sup>*1</sup>	–	–	E5_C-PR4A5M-000	E5_C-PR4D5M-000
Out2: Relay <sup>*1</sup>	004	Event input 2, Communication	E5_C-PR4A5M-004	E5_C-PR4D5M-004
	014	Event input 4, Communication Remote SP, Transfer output	E5_C-PR4A5M-014	E5_C-PR4D5M-014

<sup>\*1</sup> Position proportional control model

## E5GC (models with 0, 1 or 2 auxiliary outputs)

Output	Terminal type	Option No	Fixed option	Order code	
				110-240 VAC	24 VAC/VDC
Out 1: Relay	Screw terminals (with cover)	-	-	E5GC-RX0A6M-000	E5GC-RX0D6M-000
				E5GC-RX1A6M-000	E5GC-RX106M-000
		015	Communication	E5GC-RX2A6M-000	E5GC-RX206M-000
				E5GC-RX1A6M-015	E5GC-RX106M-015
				E5GC-RX2A6M-015	E5GC-RX206M-015
	Screwless clamp terminal	016	Event input 1	E5GC-RX2A6M-016	E5GC-RX206M-016
				E5GC-RX1A6M-023	E5GC-RX206M-023
		023	Heater Burnout SSR defect detection	E5GC-RX1A6M-024	E5GC-RX106M-024
				E5GC-RX0ACM-000	E5GC-RX0DCM-000
				E5GC-RX1ACM-000	E5GC-RX1DCM-000
Out 1: Voltage (pulse)	Screw terminals (with cover)	015	Communication	E5GC-RX2ACM-000	E5GC-RX2DCM-000
				E5GC-RX1ACM-015	E5GC-RX1DCM-015
		016	Event input 1	E5GC-RX2ACM-015	E5GC-RX2DCM-015
				E5GC-RX1ACM-016	E5GC-RX1DCM-016
				E5GC-RX2ACM-023	E5GC-RX2DCM-023
	Screwless clamp terminal	024	Event input 2	E5GC-RX1ACM-024	E5GC-RX1DCM-024
				E5GC-OX0A6M-000	E5GC-OX0D6M-000
		015	Communication	E5GC-OX1A6M-000	E5GC-OX106M-000
				E5GC-OX2A6M-000	E5GC-OX206M-000
				E5GC-OX1A6M-015	E5GC-OX106M-015
Out 1: Liner current	Screw terminals (with cover)	016	Event input 1	E5GC-OX2A6M-016	E5GC-OX206M-016
				E5GC-OX2ACM-023	E5GC-OX2DCM-023
				E5GC-OX1A6M-024	E5GC-OX106M-024
	Screwless clamp terminal	024	Event input 2	E5GC-CX0A6M-000	E5GC-CX0D6M-000
				E5GC-CX1A6M-000	E5GC-CX106M-000
		015	Communication	E5GC-CX2A6M-000	E5GC-CX206M-000
				E5GC-CX1A6M-015	E5GC-CX106M-015
				E5GC-CX2A6M-015	E5GC-CX206M-015
	Screwless clamp terminal	016	Event input 1	E5GC-CX2A6M-016	E5GC-CX206M-016
				E5GC-CX1ACM-024	E5GC-CX106M-024
		024	Event input 2	E5GC-CX0ACM-000	E5GC-CX0DCM-000
				E5GC-CX1ACM-000	E5GC-CX10CM-000
				E5GC-CX2ACM-000	E5GC-CX20CM-000

## E5DC (models with 0 or 2 auxiliary outputs)

Output	Option No	Fixed option	Order code	
			110-240 VAC	24 VAC/VDC
Out1: Relay	-	-	E5DC-RX2ASM-000	E5DC-RX2DSM-000
			E5DC-RX2ASM-002	E5DC-RX2DSM-002
	002	Communication, Heater Burnout SSR defect detection	E5DC-RX0ASM-015* <sup>1</sup>	E5DC-RX0DSM-015* <sup>1</sup>
	015	Communication	E5DC-RX2ASM-017	E5DC-RX2DSM-017
Out1: Voltage (pulse)	-	-	E5DC-QX2ASM-000	E5DC-QX2DSM-000
			E5DC-QX2ASM-002	E5DC-QX2DSM-002
	002	Communication, Heater Burnout SSR defect detection	E5DC-QX0ASM-015* <sup>1</sup>	E5DC-QX0DSM-015* <sup>1</sup>
	015	Communication	E5DC-QX2ASM-017	E5DC-QX2DSM-017
Out1: Linear current	-	-	E5DC-CX2ASM-000	E5DC-CX2DSM-000
			E5DC-CX0ASM-015* <sup>1</sup>	E5DC-CX0DSM-015* <sup>1</sup>
	015	Communication	E5DC-CX2ASM-015	E5DC-CX2DSM-015
	016	Event Input 1	E5DC-CX2ASM-016	E5DC-CX2DSM-016

<sup>1</sup>\* Auxiliary outputs are not possible for these models.

## E5\_C optional tools

Option	Order code
USB based configuration cable	E58-CIFQ2, E58-CIFQ2-E (for E5AC, E5DC, E5EC and E5GC)
PC based configuration and tuning software	EST2-2C-MV4

## Specifications

## E5CC/E5EC/E5AC

Item	E5CC	E5EC	E5AC
Power supply voltage	A in model number: 100 to 240 VAC, 50/60 Hz D in model number: 24 VAC, 50/60 Hz; 24 VDC		
Operating voltage range	85% to 110% of rated supply voltage		
Power consumption	6.5 VA max. at 100 to 240 VAC, and 4.1 VA max. at 24 VAC or 2.3 W max. at 24 VDC	8.3 VA max. at 100 to 240 VAC, and 5.5 VA max. at 24 VAC or 3.2 W max. at 24 VDC	9.0 VA max. at 100 to 240 VAC, and 5.6 VA max. at 24 VAC or 3.4 W max. at 24 VDC
Sensor input	<ul style="list-style-type: none"> <li>Temperature inputs Thermocouple: K, J, T, E, L, U, N, R, S, B, W, or PL II Platinum resistance thermometer: Pt100 or JPt100 Infrared temperature sensor (ES1B): 10 to 70°C, 60 to 120°C, 115 to 165°C, or 140 to 260°C</li> <li>Analog inputs Current input (mA): 4 to 20 or 0 to 20 Voltage input (V): 1 to 5, 0 to 5, or 0 to 10</li> </ul>		
Input impedance	Current input: 150 Ω max., Voltage input: 1 MΩ min. (Use a 1:1 connection when connecting the ES2-HB/THB.)		
Control method	ON/OFF control or 2-PID control (with auto-tuning)		
Indication accuracy	Thermocouple input: (±0.3% of indicated value or ±1°C, whichever is greater) ±1 digit max. Platinum resistance thermometer input: (±0.2% of indicated value or ±0.8°C, whichever is greater) ±1 digit max. Analog input: ±0.2% FS ±1 digit max. CT input: ±5% FS ±1 digit max.		
Auto-Tuning	Yes, 40%/100% MV output limit selection. When using Heat/Cool: Automatic cool gain adjustment		
Self-Tuning	Yes		
Control outputs	Relay output	SPST-NO, 250 VAC, 3 A (resistive load), electrical life: 100,000 operations, minimum applicable load: 5 V, 10 mA	SPST-NO, 250 VAC, 5 A (resistive load), electrical life: 100,000 operations, minimum applicable load: 5 V, 10 mA
	Voltage output (for driving SSR)	Output voltage: 12 VDC ±20% (PNP), max. load current: 21 mA, with short-circuit protection circuit (The maximum load current is 21 mA for models with two control outputs.)	Output voltage: 12 VDC ±20% (PNP), max. load current: 40 mA, with short-circuit protection circuit
	Linear current output	4 to 20 mA DC/0 to 20 mA DC, load: 500 Ω max., resolution: approx. 10,000	
Auxiliary outputs	Number of outputs	3	4
	Output specifications	N.O. relay outputs, 250 VAC, Models with 3 outputs: 2 A (resistive load), electrical life: 100,000 operations, minimum applicable load: 5 V, 10 mA	N.O. relay outputs, 250 VAC, Models with 4 outputs: 2 A (resistive load), electrical life: 100,000 operations, minimum applicable load: 5 V, 10 mA
Event inputs	Number of inputs	2 or 4 or 6 max (depends on the model)	
	External contact input specifications	Contact input: ON: 1 kΩ max., OFF: 100 kΩ min.	
		Non-contact input: ON: Residual voltage: 1.5 V max., OFF: Leakage current: 0.1 mA max. Current flow: approx. 7 mA per contact	
Setting method	Digital setting using front panel keys or via Remote Software CX-Thermo V4.5		
Indication method	11-segment digital display and individual indicators		
Multi SP	Up to eight set points (SP0 to SP7) can be saved and selected using event inputs, key operations, or serial communications.		
Other functions	Manual output, heating/cooling control, loop burnout alarm, SP ramp, other alarm functions, heater burnout detection (including SSR failure detection), 40% AT, 100% AT, MV limiter, input digital filter, self-tuning, temperature input shift, run/stop, protection functions, extraction of square root, MV change rate limit, logic operations, PV/SV status display, simple program, automatic cooling coefficient adjustment		
Ambient operating temperature	−10 to 55°C (with no condensation or icing)		
Ambient operating humidity	25% to 85%		
Storage temperature	−25 to 65°C (with no condensation or icing)		
Degree of protection	Front panel: IP66, Rear case: IP20, Terminals: IP00		
Sampling period	50 ms		
Size in mm (H×W×D)	48×48×64	48×96×64	96×96×64

## E5GC

Item	E5GC						
Power supply voltage	A in model number: 100 to 240 VAC, 50/60 Hz D in model number: 24 VAC, 50/60 Hz; 24 VDC						
Sensor input	<ul style="list-style-type: none"> <li>Temperature input Thermocouple: K, J, T, E, L, U, N, R, S, B, W, or PL II Platinum resistance thermometer: Pt100 or JPt100 Infrared temperature sensor (ES1B): 10 to 70°C, 60 to 120°C, 115 to 165°C, or 140 to 260°C</li> <li>Analog input Current input: 4 to 20 mA or 0 to 20 mA Voltage input: 1 to 5 V, 0 to 5 V, or 0 to 10 V</li> </ul>						
Control method	ON/OFF control or 2-PID control (with auto-tuning)						
Control output	<table border="1"> <tr> <td>Relay output</td><td>SPST-NO, 250 VAC, 2 A (resistive load), electrical life: 100,000 operations, minimum applicable load: 5 V, 10 mA (reference value)</td></tr> <tr> <td>Voltage output (for driving SSR)</td><td>Output voltage 12 VDC ±20% (PNP), max. Load current: 21 mA, with short-circuit protection circuit</td></tr> <tr> <td>Linear current output</td><td>4 to 20 mA DC/0 to 20 mA DC, load: 500 Ω max., resolution: Approx. 10,000</td></tr> </table>	Relay output	SPST-NO, 250 VAC, 2 A (resistive load), electrical life: 100,000 operations, minimum applicable load: 5 V, 10 mA (reference value)	Voltage output (for driving SSR)	Output voltage 12 VDC ±20% (PNP), max. Load current: 21 mA, with short-circuit protection circuit	Linear current output	4 to 20 mA DC/0 to 20 mA DC, load: 500 Ω max., resolution: Approx. 10,000
Relay output	SPST-NO, 250 VAC, 2 A (resistive load), electrical life: 100,000 operations, minimum applicable load: 5 V, 10 mA (reference value)						
Voltage output (for driving SSR)	Output voltage 12 VDC ±20% (PNP), max. Load current: 21 mA, with short-circuit protection circuit						
Linear current output	4 to 20 mA DC/0 to 20 mA DC, load: 500 Ω max., resolution: Approx. 10,000						
Auxiliary output	<table border="1"> <tr> <td>Number of outputs</td><td>1 or 2 (depends on model)</td></tr> <tr> <td>Output specifications</td><td>SPST-NO relay outputs, 250 VAC, 2 A (resistive load), Electrical life: 100,000 operations, Minimum applicable load: 10 mA at 5 V (reference value)</td></tr> </table>	Number of outputs	1 or 2 (depends on model)	Output specifications	SPST-NO relay outputs, 250 VAC, 2 A (resistive load), Electrical life: 100,000 operations, Minimum applicable load: 10 mA at 5 V (reference value)		
Number of outputs	1 or 2 (depends on model)						
Output specifications	SPST-NO relay outputs, 250 VAC, 2 A (resistive load), Electrical life: 100,000 operations, Minimum applicable load: 10 mA at 5 V (reference value)						
Indication method	11-segment digital displays and individual indicators Character height: PV: 10.5 mm, SV: 5.0 mm						
Multi SP	Up to eight set points (SP0 to SP7) can be saved and selected using the event inputs, key operations, or serial communications.* <sup>1</sup>						
Other functions	Manual output, heating/cooling control, loop burnout alarm, SP ramp, other alarm functions, heater burnout (HB) alarm (including SSR failure (HS) alarm), 40% AT, 100% AT, MV limiter, input digital filter, self tuning, robust tuning, PV input shift, run/stop, protection functions, extraction of square root, MV change rate limit, logic operations, temperature status display, simple programming, moving average of input value, display brightness setting, simple transfer output, and work bit message.* <sup>2</sup>						
Size in mm (H×W×D)	24x48x93						

<sup>1</sup>\* Only four set points are selectable for event inputs.<sup>2</sup>\*<sup>2</sup> Simple transfer output and work bit message are only for E5GC.

## E5DC

Item	E5DC						
Power supply voltage	A in model number: 100 to 240 VAC, 50/60 Hz D in model number: 24 VAC, 50/60 Hz; 24 VDC						
Operating voltage range	85% to 110% of rated supply voltage						
Power consumption	4.9 VA max. at 100 to 240 VAC, and 2.8 VA max. at 24 VDC or 1.5 W max. at 24 VDC						
Sensor input	<ul style="list-style-type: none"> <li>Temperature inputs Thermocouple: K, J, T, E, L, U, N, R, S, B, W, or PL II Platinum resistance thermometer: Pt100 or JPt100 Infrared temperature sensor (ES1B): 10 to 70°C, 60 to 120°C, 115 to 165°C, or 140 to 260°C</li> <li>Analog inputs Current input (mA): 4 to 20 or 0 to 20 Voltage input (V): 1 to 5, 0 to 5, or 0 to 10</li> </ul>						
Input impedance	Current input: 150 Ω max., Voltage input: 1 MΩ min. (Use a 1:1 connection when connecting the ES2-HB/THB.)						
Control method	ON/OFF control or 2-PID control (with auto-tuning)						
Indication accuracy	Thermocouple input: (±0.3% of PV or ±1°C, whichever is greater) ±1 digit max. Platinum resistance thermometer input: (±0.2% of PV or ±0.8°C, whichever is greater) ±1 digit max. Analog input: ±0.2% FS ±1 digit max. CT input: ±5% FS ±1 digit max.						
Auto-Tuning	Yes, 40%/100% MV output limit selection. When using Heat/Cool: Automatic cool gain adjustment						
Self-Tuning	Yes						
Control outputs	<table border="1"> <tr> <td>Relay output</td><td>SPST-NO, 250 VAC, 3 A (resistive load), electrical life: 100,000 operations, minimum applicable load: 5 V, 10 mA</td></tr> <tr> <td>Voltage output (for driving SSR)</td><td>Output voltage: 12 VDC ±20% (PNP), max. load current: 20 mA, with short-circuit protection circuit</td></tr> <tr> <td>Linear current output</td><td>4 to 20 mA DC/0 to 20 mA DC, load: 500 Ω max., resolution: approx. 10,000</td></tr> </table>	Relay output	SPST-NO, 250 VAC, 3 A (resistive load), electrical life: 100,000 operations, minimum applicable load: 5 V, 10 mA	Voltage output (for driving SSR)	Output voltage: 12 VDC ±20% (PNP), max. load current: 20 mA, with short-circuit protection circuit	Linear current output	4 to 20 mA DC/0 to 20 mA DC, load: 500 Ω max., resolution: approx. 10,000
Relay output	SPST-NO, 250 VAC, 3 A (resistive load), electrical life: 100,000 operations, minimum applicable load: 5 V, 10 mA						
Voltage output (for driving SSR)	Output voltage: 12 VDC ±20% (PNP), max. load current: 20 mA, with short-circuit protection circuit						
Linear current output	4 to 20 mA DC/0 to 20 mA DC, load: 500 Ω max., resolution: approx. 10,000						
Auxiliary outputs	<table border="1"> <tr> <td>Number of outputs</td><td>2 (depends on model)</td></tr> <tr> <td>Output specifications</td><td>SPST-NO relay outputs: 250 VAC, 2 A (resistive load), Electrical life: 100,000 operations, minimum applicable load: 5 V, 10 mA</td></tr> </table>	Number of outputs	2 (depends on model)	Output specifications	SPST-NO relay outputs: 250 VAC, 2 A (resistive load), Electrical life: 100,000 operations, minimum applicable load: 5 V, 10 mA		
Number of outputs	2 (depends on model)						
Output specifications	SPST-NO relay outputs: 250 VAC, 2 A (resistive load), Electrical life: 100,000 operations, minimum applicable load: 5 V, 10 mA						
Event inputs	<table border="1"> <tr> <td>Number of inputs</td><td>1 (depends on model)</td></tr> <tr> <td>External contact input specifications</td><td>Contact input: ON: 1 kΩ max., OFF: 100 kΩ min. Non-contact input: ON: Residual voltage: 1.5 V max., OFF: Leakage current: 0.1 mA max. Current flow: approx. 7 mA per contact</td></tr> </table>	Number of inputs	1 (depends on model)	External contact input specifications	Contact input: ON: 1 kΩ max., OFF: 100 kΩ min. Non-contact input: ON: Residual voltage: 1.5 V max., OFF: Leakage current: 0.1 mA max. Current flow: approx. 7 mA per contact		
Number of inputs	1 (depends on model)						
External contact input specifications	Contact input: ON: 1 kΩ max., OFF: 100 kΩ min. Non-contact input: ON: Residual voltage: 1.5 V max., OFF: Leakage current: 0.1 mA max. Current flow: approx. 7 mA per contact						
Setting method	Digital setting using front panel keys						
Indication method	11-segment digital displays and individual indicators Character height: PV 8.5 mm, SV: 8.0 mm						
Multi SP	Up to eight set points (SP0 to SP7) can be saved and selected using event inputs, key operations, or serial communications.* <sup>1</sup>						
Other functions	Manual output, heating/cooling control, loop burnout alarm, SP ramp, other alarm functions, heater burnout (HB) alarm (including SSR failure (HB) alarm), 40% AT, 100% AT, MV limiter, input digital filter, self tuning, robust tuning, PV input shift, run/stop, protection functions, extraction of square root, MV change rate limit, simple calculations, temperature status display, simple programming, moving average of input value, and display brightness setting						
Ambient operating temperature	-10 to 55°C (with no condensation or icing), for 3-year warranty: -10 to 50°C (with no condensation or icing)						
Ambient operating humidity	25% to 85%						
Storage temperature	-25 to 65°C (with no condensation or icing)						
Degree of protection	Main unit: IP20, Terminal unit: IP00						
Sampling period	50 ms						
Size in mm (H×W×D)	96x22.5x85						

<sup>1</sup>\* Only two set points are selectable for event inputs.

## USB communication cable E58-CIFQ2

Item	E5AC	E5CC	E5DC	E5EC	E5GC
E58-CIFQ2	■	■	■	■	■
E58-CIFQ2-E	■	—	■	■	■





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Temperature and Process 3 Alarms Sal Universal Ent Relay 2 Evt HBA 48x48 100-240Vac	356261	E5CC-RX3A5M-001	<a href="#">Buy on EAN</a>
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Temperature and Process Universal Ent 3 Alarms RS485 Relay Salt HBA Trif. 24VDC / VAC 48x48	356264	E5CC-RX3D5M-003	<a href="#">Buy on EAN</a>
Temperature and Process 3 Alarms Sal Universal Ent Relay 4 Evt 100-240Vac 48x48	356265	E5CC-RX3A5M-005	<a href="#">Buy on EAN</a>
Temperature and Process 3 Alarms Sal Universal Ent Relay 4 Evt 24Vdc / Vac 48x48	356266	E5CC-RX3D5M-005	<a href="#">Buy on EAN</a>
Temperature and Process 3 Alarms Sal Universal Ent Relay 2 Transfer 100-240Vac Evt 48x48	356267	E5CC-RX3A5M-006	<a href="#">Buy on EAN</a>
Temperature and Process Universal Ent 3 Alarms SSR Sal 48x48 100-240Vac	356271	E5CC-QX3A5M-000	<a href="#">Buy on EAN</a>
Temperature and Process Universal Ent 3 Alarms Sal SSR 24VDC / VAC 48x48	356272	E5CC-QX3D5M-000	<a href="#">Buy on EAN</a>
Temperature and Process Universal Ent 3 Alarms Sal SSR 2 Evt HBA 48x48 100-240Vac	356273	E5CC-QX3A5M-001	<a href="#">Buy on EAN</a>

Temperature and Process Universal Ent 3 Alarms Sal 2 Evt HBA SSR 24VDC / VAC 48x48	356274	E5CC-QX3D5M-001	<a href="#">Buy on EAN</a>
Temperature and Process Universal Ent 3 Alarms Sal SSR RS485 HBA Trif. 48x48 100-240Vac	356275	E5CC-QX3A5M-003	<a href="#">Buy on EAN</a>
Temperature and Process Universal Ent 3 Alarms Sal SSR RS485 HBA Trif. 24VDC / VAC 48x48	356276	E5CC-QX3D5M-003	<a href="#">Buy on EAN</a>
Temperature and Process Universal Ent 3 Alarms SSR Sal 4 Evt 100-240Vac 48x48	356277	E5CC-QX3A5M-005	<a href="#">Buy on EAN</a>
Temperature and Process Universal Ent 3 Alarms 4 Evt Sal SSR 24VDC / VAC 48x48	356278	E5CC-QX3D5M-005	<a href="#">Buy on EAN</a>
Temperature and Process Universal Ent 3 Alarms Salt current 100-240Vac 48x48	356295	E5CC-CX3A5M-000	<a href="#">Buy on EAN</a>
Temperature and Process Universal Ent 3 Alarms Salt current 24VDC / VAC 48x48	356296	E5CC-CX3D5M-000	<a href="#">Buy on EAN</a>
Temperature and Process, Cable Comm. front E5EC	356821	E58-CIFQ2-E	<a href="#">Buy on EAN</a>
Temperature and Process Ent. Universal, relay output, 2Aux, 24Vdc / Vac, 22,5X96	377922	E5DC-RX2DSM-000	<a href="#">Buy on EAN</a>
Temperature and Process Ent. Universal, relay output, 2Aux, Ac 100,240,22,5X96	377921	E5DC-RX2ASM-000	<a href="#">Buy on EAN</a>
Temperature and Process Ent. Universal, relay output, RS485,24Vcc com / Vac, 22,5X96	377926	E5DC-RX0DSM-015	<a href="#">Buy on EAN</a>
Temperature and Process Ent. Universal, SSR output, 2 Aux 1 event, HBA, 24Vdc / Vac, 22,5X96	377936	E5DC-QX2DSM-017	<a href="#">Buy on EAN</a>
Temperature and Process Ent. Universal, SSR output, RS485 com, Ac 100,240,22,5X96	377933	E5DC-QX0ASM-015	<a href="#">Buy on EAN</a>
Temperature and Process Ent. Universal, output current, 2 Aux, 24Vdc / Vac, 22,5X96	377938	E5DC-CX2DSM-000	<a href="#">Buy on EAN</a>
Temperature and Process Ent. Universal, current output, RS485 com, Ac 100,240,22,5X96	377939	E5DC-CX0ASM-015	<a href="#">Buy on EAN</a>
Temperature and Process Ent. Universal, SSR output, 2 Aux 1 event, HBA, Ac 100,240,22,5X96	377935	E5DC-QX2ASM-017	<a href="#">Buy on EAN</a>
Temperature and Process Ent. Universal, output current, 2Aux, Ac 100,240,22,5X96	377937	E5DC-CX2ASM-000	<a href="#">Buy on EAN</a>
Temperature and Process Ent. Universal, salidaSSR, 2 Aux, 24Vdc / Vac, 22,5X96	377930	E5DC-QX2DSM-000	<a href="#">Buy on EAN</a>
Temperature and Process Ent. Universal, SSR output, 2 Aux, RS485 com, HBA, Ac 100,240,22,5X96	377931	E5DC-QX2ASM-002	<a href="#">Buy on EAN</a>
Temperature and Process Ent. Universal, salidaSSR, 2 Aux, com RS 485, HBA, 24Vdc / Vac, 22,5X96	377932	E5DC-QX2DSM-002	<a href="#">Buy on EAN</a>
Temperature and Process 3 Alarms Salt Universal Ent Current 2 Evt RSP 24VDC / VAC 48x48	356302	E5CC-CX3D5M-007	<a href="#">Buy on EAN</a>
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Temperature and Process Universal Ent 3 Alarmes Sal Corrente 2 Evt Transfer 24Vdc / Vac 48x48	356300	E5CC-CX3D5M-006	<a href="#">Buy on EAN</a>

Temperature and Process 3 Alarms Salt Universal Ent Current 2 Evt RSP 48x48 100-240Vac	356301	E5CC-CX3A5M-007	<a href="#">Buy on EAN</a>
Temperature and Process 3 Alarms Salt Universal Ent Current 2 Evt RS485 24VDC / VAC 48x48	356304	E5CC-CX3D5M-004	<a href="#">Buy on EAN</a>
Temperature and Process Ctrl.Temp, Ent.Univ, Sal.relay, 2sal.aux, RS485,100-240VAC, Screw, 48x24	392061	E5GC-RX2A6M-015	<a href="#">Buy on EAN</a>
Temperature and Process Ctrl.Temp, Ent.Univ, Sal.relay, 1sal.aux, 2Ent Evt, 100-240VAC, Screw, 48x24	392065	E5GC-RX1A6M-024	<a href="#">Buy on EAN</a>
Temperature and Process Ctrl.Temp, Ent.Univ, Sal.relay, 2sal.aux, RS485,24Vcc / Vac, Conx.fast, 48x24	392064	E5GC-RX2DCM-015	<a href="#">Buy on EAN</a>
Temperature and Process Ent. Universal, relay output, 2 Aux 1 event, HBA, 24Vdc / Vac, 22,5X96	377928	E5DC-RX2DSM-017	<a href="#">Buy on EAN</a>
Temperature and Process, Humidity Sensor	127505	ES2-HB	<a href="#">Buy on EAN</a>
Temperature and Process Ctrl.Temp, Ent.Univ, Sal.Corr, 1sal.aux, 2Ent Evt, 100-240VAC, Screw, 48x24	392081	E5GC-CX1A6M-024	<a href="#">Buy on EAN</a>
Temperature and Process Ctrl.Temp, Ent.Univ, Sal.Corr, 1sal.aux, 2Ent Evt, 100-240VAC, Conx.fast, 48x24	392083	E5GC-CX1ACM-024	<a href="#">Buy on EAN</a>
Temperature and Process Ctrl.Temp, Ent.Univ, Sal.relay, 1sal.aux, RS485,100-240VAC, Screw, 48x24	392089	E5GC-RX1A6M-015	<a href="#">Buy on EAN</a>
Temperature and Process Universal Ent 3 Alarms SSR Sal RS485 + current HBA Trif. 24Vdc / Vac 48x48	382889	E5CC-CQ3D5M-003	<a href="#">Buy on EAN</a>
Temperature and Process 3 Alarms Universal Ent 2 Salt SSR 48x48 100-240Vac	356283	E5CC-QQ3A5M-000	<a href="#">Buy on EAN</a>
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Temperature and Process 3 Alarms Sal Universal Ent Relay 2 Transfer Evt 24Vdc / Vac 48x48	356268	E5CC-RX3D5M-006	<a href="#">Buy on EAN</a>
Temperature and Process Ent. Universal, output current, 2 Aux 1 event, Ac 100,240,22,5X96	377943	E5DC-CX2ASM-016	<a href="#">Buy on EAN</a>
Temperature and Process Ent. Universal, output current, 2 Aux, RS485 com, Ac 100,240,22,5X96	377941	E5DC-CX2ASM-015	<a href="#">Buy on EAN</a>
Temperature and Process Ent. Universal, output current, 2 Aux, RS 485 com 24VDC / VAC, 22,5X96	377942	E5DC-CX2DSM-015	<a href="#">Buy on EAN</a>

Temperature and Process Ent. Universal, output current, 2 Aux 1 event, 24Vdc / Vac, 22,5X96	377944	E5DC-CX2DSM-016	<a href="#">Buy on EAN</a>
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Temperature and Process Ent. Universal, relay output, 2 Aux, RS485 com, HBA, 24Vdc / Vac, 22,5X96	377924	E5DC-RX2DSM-002	<a href="#">Buy on EAN</a>
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